Pediatric Nutrition (PedNSS) Surveillance System

Summary of 2003 Data

South Dakota Department of Health November 2004

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Pediatric Nutrition Surveillance System (PedNSS) Summary 2003

Information on the health of a population is essential for assessing health needs and planning programs to address those needs. Surveillance is the process of measuring specific health indicators in a given population on a continuous basis, allowing for the evaluation of a population over time.

This report provides a summary of the nutritional data collected in South Dakota through the Pediatric Nutrition Surveillance System (PedNSS) for the calendar year of 2003. PedNSS is a program of the Centers for Disease Control and Prevention (CDC) and was started in 1973. The first year of statewide data collection for South Dakota was 1995. Currently, nearly all the states and territories participate in PedNSS.

The data was obtained by using the records of infants and children participating in the South Dakota Special Supplemental Nutrition Program for Women, Infants, and Children (WIC). Data is available by clinic, county, region and state. Cheyenne River, Rosebud Sioux and Standing Rock Tribal WIC Programs data are not included in this report.

Data is presented in this report for the state as a whole, by regions and by county for each of the six nutrition indicators:

- Birth weight

Low birth weight (less than 2,500 grams) High birth weight (over 4,000 grams)

- Short stature (low height-for-age)
- Underweight (low weight-for-height and low BMI-for-age)
- Overweight (high weight-for-height and high BMI-for-age)
- Anemia
- Breastfeeding

Ever breastfed
Breastfed at least 6 months
Breastfed at least 12 months

Individual clinics and counties with 100 or more individual children that could be analyzed are also reported separately. All clinics in a county are reported in county totals. All clinics statewide are reported in regional and state totals.

Comparison of Data

PedNSS data can be collected in a variety of populations including WIC, Head Start, and Well Child Clinics (MCH). This report represents only infants and children participating in the WIC program of the South Dakota Department of Health. Care must be taken when comparing PedNSS data between states, as data is not always collected from identical populations. Care must also be taken when comparing the data in written reports before and after the recent PedNSS program changes in 2001. Data presented in the main body of the report, including trend data, reflects the updated analysis of PedNSS.

In calendar year 2003, WIC served an average of 4,789 infants per month. This would indicate that approximately 43 percent of the total resident births, 11,022, in South Dakota were infants on WIC. The percentage of children varies greatly by county. All WIC participants are of limited income at or below 185 percent of the federal poverty level and have been determined to be at nutritional risk.

Limitations of Data

This is the eighth year that PedNSS data has been reported for South Dakota. Overall, the quality of the data is very good, but some sites may have more errors than others. Biologically Implausible Values (BIV) have a 1/1000 chance of being true data and are therefore considered to be an error. BIV's were not included in the data analysis.

The population of some counties is very small. All reported counties and clinics must have had at least 100 participants to have data analyzed. Only the total number of records analyzed and the percent of records with values that fell within the criteria were given for each indicator with at least 100 usable records. Data from counties and clinics with fewer than 100 records were not provided in this report as small numbers do not produce stable rates. The data used to compile this report consist of one unduplicated record per indicator per child.

When applicable, confidence intervals are given along with the rate of incidence for each county as well as for the state rate. This interval is based on the particular rate's standard error. The standard error defines a percentage's variability and is also used in calculating a confidence interval that can determine the actual variance of a percentage 95 percent of the time. That is, an interval in which a particular percentage will fall 95 percent of the time. The standard error takes into account the size of the sample being surveyed.

By applying the following formulas the standard error and the 95 percent confidence interval can be computed for the percent of respondents reporting each condition in the given period of time.

95 % Confidence Interval:

Percent ± (1.96 * Standard Error)

Standard Error

Percent / Square Root of the number of respondents reporting the condition (This produces an estimate of the standard error)

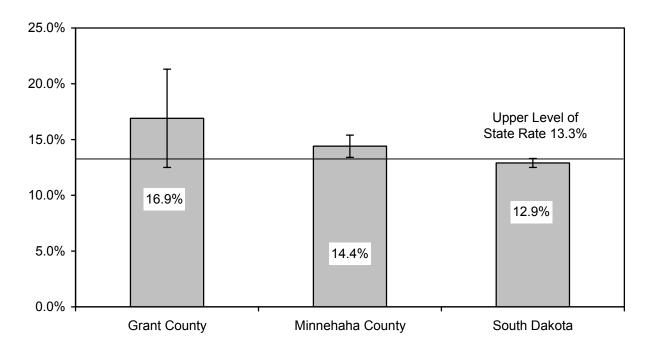
For example: the three-year PedNSS data, 2001-2003, indicates that 12.9 percent of the state's PedNSS children ages 2 to 5 years of age were overweight. This was based on roughly 3,246 records (25,161 x .129) that indicated the children were overweight. An estimate of the standard error for the percent of PedNSS children reported as overweight can be made by dividing the percent of children reported overweight (12.9) by the square root of the number of PedNSS children reported overweight (Square Root of 3,246 \cong 57). This gives us an estimated standard error of .0.23 percent (12.9/57). Using the estimated standard error in the formula above the 95 percent confidence interval for the percent of overweight PedNSS children in the state for the three-year period can be calculated. Following this formula, we compute the 95 percent confidence interval for the state's rate of overweight children to be from 12.4 to 13.3 percent (12.9 \pm 0.4).

Confidence intervals are useful where rates appear to be different, but the differences are not necessarily statistically significant. For example, in Grant County there were 40 records of the 237 (237 x .16.9) analyzed that indicated the child was overweight for the three years 2001-2003. This gave a rate of 16.9 percent, which appears to be well

above the state's rate of 12.9 percent. However, after computing the standard error, which takes into account the relatively few records in the county, we find that the 95 percent confidence interval is ± 4.4 percent. This makes the 95 percent confidence interval from 12.5 to 21.3 percent, since the county interval overlaps the state's interval (12.5 to 13.3 percent), the differences are not statistically significant. On the other hand, compared to Grant County, Minnehaha County had a lower rate, 14.4 percent, but since there were more records, 554 of the 3,845 (3,845 x .144) analyzed that indicated overweight children, the 95 percent confidence interval is smaller (\pm 1.0 percent). Since Minnehaha County's confidence interval (13.4 to 15.4 percent) does not overlap the state's interval, the difference is statistically significant. The data used in these examples are from Table 15, page 48.

The three year data, provided in the tables, for the clinics, counties and regions that are significantly worse than the state wide values for that indicator are shaded to indicate these values are worse at the 0.05 level of confidence

Figure 1
Using Confidence Intervals to Compare Data
Overweight Births, 2001-2003 PedNSS Population



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Demographic Data

A total of 31,837 records for 20,037 individual children are included in the 2003 analysis. This represents the total records submitted, including those records later rejected because of critical errors, missing data, biologically implausible values and duplicate entries for a given individual. After these records were removed, there were 4,968 unique records analyzed for low and high birth weight babies (biologically implausible values that were excluded from analysis were birth weights less than 250 grams and those greater than 6,000 grams); 19,578 records analyzed for short stature, underweight and overweight children; 13,994 records analyzed for low hemoglobin; and 5,012 records analyzed for ever breastfeeding, 2,841 for breastfed at least 6 months and 2,408 for breastfed at least 12 months.

The racial/ethnic composition of South Dakota's PedNSS population as compared to the composition of the state as a whole is shown in Table 1. The Summary of Indicators (Table 2) shows the number of visits and individuals served, age distribution, race/ethnicity, program composition, and prevalence of low/high and abnormal values. The risk of infant mortality and other pediatric health outcomes may vary between populations.

Table 1

Race/Ethnicity	2003 PedNSS Population	2000 SD Population (Census)*
White	69.4%	88.7%
Black	2.7%	0.8%
American Indian or Alaskan Native	26.8%	9.0%
Asian or Pacific Islander	1.1%	0.8%
All Other/Unknown	0.0%	0.7%
Total	100.0%	100.0%

^{*} From the U.S. Census Bureau Website: http://www.census.gov

Multiple race categories were collapsed into most common minority status.

Summary of Indicators

Table 2

Pediatric Nutrition Surveillance System Summary of Indicators Reporting Period 01/01/2003 to 12/31/2003

1. Total Records	Total Records (All Visits)	Individual Children
	31,837	20,037

2. Age Distribution	Age	Number	Percent
	0-5 Months	5,059	25.2%
	6-11 Months	2,746	13.7%
	12-23 Months	3,661	18.3%
	24-35 Months	3,069	15.3%
	3-4 Years	5,502	27.5%

3. Race/Ethnicity	Race	Number	Percent
	White	13,906	69.4%
	Black	532	2.7%
	American Indian or Alaskan Native	5,363	26.8%
	Asian or Pacific Islander	230	1.1%
	All Other/Unknown	0	0.0%

4. Program Composition	Program	Number	Percent
	WIC	20,037	100%
	EPSDT	0	0.0%
	Medical Attention	0	0.0%
	Well Child (MCH)	0	0.0%
	Head Start	0	0.0%
	School Entrance	0	0.0%
	All Other	0	0.0%

Summary of Indicators

Table 2 (Continued)

Pediatric Nutrition Surveillance System Summary of Indicators Reporting Period 01/01/2003 to 12/31/2003

5. Prevalence of Low/High and Abnormal Values	Indicators	Individual Children	Percent
	Birth Weight		
	Low < 2,500	4,968	8.0
	High > 4,000	4,968	9.4
	Height and Weight		
	Short Stature < 5th Percentile	19,578	6.1
	Short Stature < 10th Percentile	19,578	10.6
	Underweight < 5th Percentile	19,578	3.5
	Underweight < 10th Percentile	19,578	6.2
	Overweight ≥ 95th Percentile (0-5 years)	19,578	12.7
	Overweight ≥2 years Old		
	Overweight 85th-< 95th Percentile	8,423	17.7
	Overweight ≥ 95th Percentile	8,423	13.6
	Anemia		
	Low Hemoglobin and/or Hematocrit	13,994	7.6
	Breastfeeding		
	Ever Breastfed	5,012	55.9
	Breastfed At Least 6 Months	2,841	22.0
	Breastfed At Least 12 Months	2,408	13.1

Overview of PedNSS Indicator Change 2002-2003

Indicators	Year 2003	Year 2002	Percent Change
Birth Weight Low	2000	2002	onango
South Dakota United States	8.0% 8.9%	8.5% 9.0%	-5.9% -1.1%
High	0.970	9.0%	-1.170
South Dakota United States	9.4% 7.6%	9.9% 7.9%	-5.1% -3.8%
	1.070	1.070	0.070
Short Statue South Dakota	6.1%	6.1%	0.0%
United States	6.3%	6.4%	-1.6%
Underweight/Overweight (Ages 0 to 5 years)			
Underweight South Dakota	2 50/	2 50/	0.00/
United States	3.5% 5.4%	3.5% 5.4%	0.0% 0.0%
Overweight	J. 4 /0	J. 7 70	0.070
South Dakota	12.7%	12.6%	+0.8%
United States	13.5%	13.1%	+3.1%
Overweight and At Risk of Overweight (Ages 2 to At Risk of Overweight	o 5 years)		
South Dakota	17.7%	16.6%	+6.3%
United States	15.4%	15.3%	+0.7%
Overweight			
South Dakota	13.6%	12.8%	+6.3%
United States	14.3%	13.4%	+6.7%
Anemia			
South Dakota	7.6%	6.5%	+16.9%
United States	13.6%	13.3%	+2.3%
Breastfeeding			
Ever Breastfed	EE 00/	EC 70/	4 40/
South Dakota United States	55.9% 52.5%	56.7% 51.1%	-1.4% +2.7%
At Least 6 Months	32.370	31.170	12.770
South Dakota	22.0%	24.1%	-8.7%
United States	20.8%	20.3%	+2.5%
At Least 12 Months			
South Dakota	13.1%	14.1%	-7.1%
United States	12.3%	13.3%	-7.5%

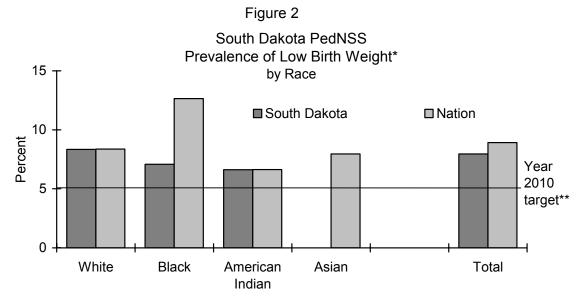
Birth Weight

Low Birth Weight

The system allows for analysis of low and high birth weight. Low birth weight is defined as a birth weight below 2,500 grams (or 5.5 pounds) and is a strong indicator of an increased risk of neonatal mortality. For infants weighing 2,500 grams or less, mortality rates increase rapidly with decreasing birth weights.

The South Dakota PedNSS population had a low birth weight rate of 8.0 percent in 2003, down from 8.5 percent in 2002. The Healthy People 2010 goal is 5.0 percent. The South Dakota PedNSS population had a low birth weight rate of 8.0 percent over the three-year period 2001-2003. The United States PedNSS population had a low birth weight rate of 8.9 percent in calendar year 2002.

Low birth weight is a nutrition indicator of the PedNSS system that is also collected by other means in this state. The South Dakota Department of Health, Office of Data, Statistics and Vital Records, collects birth weight information from birth certificates. Birth records for calendar year 2003 show that 6.7 percent of live births in South Dakota were low birth weight births.



- * < 2500 grams, among infants born during the reporting period.
- ** Reduce low birthweight to 5% of live births.

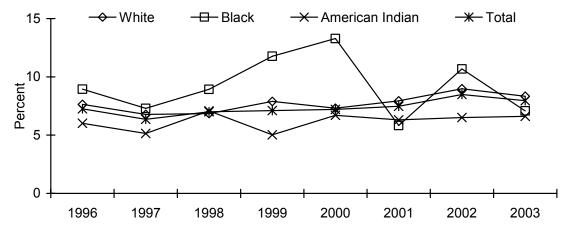
There are many risk factors that are known to potentially cause low birth weight and intrauterine growth retardation, although determining specific causes of low birth weight in segments of the population is difficult. Risk factors associated with low birth weight include: demographics (maternal age, marital status, ethnicity, education, and income), medical risks existing before pregnancy (weight status, obstetric history, parity and congenital anomalies), medical risks existing in current pregnancy (pregnancy induced hypertension, multiple pregnancy, poor weight gain), and environmental/behavioral factors (smoking, substance abuse, low socio-economic status, and poor nutrition).

Figure 3

South Dakota PedNSS

Trends in Prevalence of Low Birth Weight*

by Race



< 2500 grams, among infants born during the reporting period.
 Year 2010 target: Reduce low birthweight to 5% of live births

The percentage of low birth weight varied by race in South Dakota's 2003 PedNSS population. The rates were 8.3 percent for whites, 7.1 percent for blacks, 6.6 percent for American Indian and Alaskan Natives.

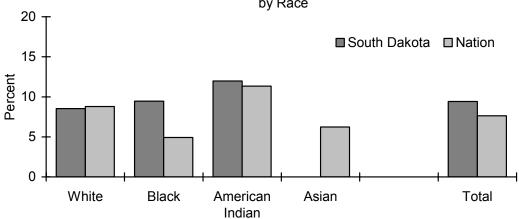
High Birth Weight

High birth weight is defined as a birth weight higher than 4,000 grams (or 8.8 pounds) and may also be called Large for Gestational Age (LGA). For infants weighing 4,000 grams or more, mortality rates are higher than for infants weighing between 3,000 and 4,000 grams (6.6 and 8.8 pounds). Large for Gestational Age may be a result of maternal diabetes (which may or may not have been diagnosed before or during pregnancy) and may result in obesity in childhood that may extend into adult life. Very large infants have a higher incidence of birth injuries and congenital anomalies (especially heart disease) and developmental and intellectual retardation. When large for gestational age occurs with pre-term birth, the mortality risk is higher than when either exists alone.

The South Dakota PedNSS population had a high birth weight rate of 9.4 percent in 2003, down from 9.9 percent in 2002. The South Dakota PedNSS population had a high birth weight rate of 9.7 percent over the three-year period 2001-2003. The United States PedNSS population had a high birth weight rate of 7.6 percent in calendar year 2002.

Birth records for calendar year 2003 show that 10.2 percent of live births in South Dakota were high birth weight births.

Figure 4 South Dakota PedNSS Prevelence of High Birth Weight* by Race



* >4000 grams, among infants born during the reporting period.

Figure 5 South Dakota PedNSS Trends in Prevelence of High Birth Weight* by Race

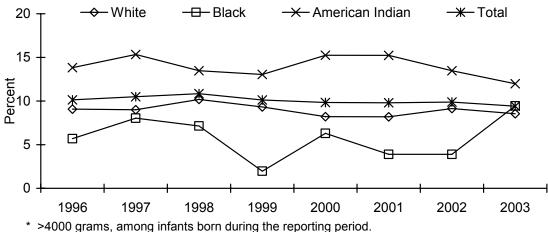


Table 3

Pediatric Nutrition Surveillance System
Low Birth Weight
Reporting Period 01/01/2003 to 12/31/2003

2003 Data Three Year Data (2001-2003) County Low Birth Weight (1) Low Birth Weight (1) Total Total Clinic Percent Confidence Percent Confidence Records **LBW** Interval Records **LBW** Interval Aurora 15 46 * * Plankinton 15 46 10.1% 2.9% Beadle 89 318 Huron 89 318 10.1% 2.9% **Bennett** 42 129 0.8% 1.3% * Martin 42 129 0.8% 1.3% **Bon Homme** 33 91 Tyndall 33 91 8.5% 4.4% 340 8.8% 2.6% **Brookings** 117 **Brookings** 117 8.5% 4.4% 340 8.8% 2.6% Brown 211 10.9% 3.7% 556 8.5% 2.0% Aberdeen 211 10.9% 3.7% 556 8.5% 2.0% 18 **Brule** 74 Chamberlain 15 62 Kimball 3 12 3.7% Buffalo 57 164 8.5% Ft. Thompson 57 164 8.5% 3.7% **Butte** 59 203 13.3% 4.2% Belle Fourche 50 168 4.7% 13.7% Newell 9 35 **Charles Mix** 101 6.9% 4.3% 322 4.7% 2.0% Lake Andes 32 96 Platte 5 24 202 2.5% Wagner 64 4.5% Clark 12 41 41 Clark 12 * Clay 65 203 5.4% 2.7% 2.7% Vermillion 65 203 5.4% Codington 172 11.6% 4.3% 479 9.6% 2.3% Watertown 4.3% 479 172 11.6% 9.6% 2.3% Corson 1 7 7 McLaughlin 1 * * Custer 26 73 Custer 26 73 Davison 127 5.5% 3.4% 352 9.4% 2.7% 127 352 2.7% Mitchell 5.5% 3.4% 9.4% 27 90 Day 27 90 Webster Deuel 14 35 35 Clear Lake 14

⁽¹⁾ Birth weights less than 2,500 grams, excludes birth weights less than 250 grams.

Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 3 (Continued)

Pediatric Nutrition Surveillance System Low Birth Weight Reporting Period 01/01/2003 to 12/31/2003

County	Low	2003 Data Birth Weigl	ht (1)		ear Data (20 Birth Weigl	
Clinic	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Dewey	18	*	*	42	*	*
Isabel	2	*	*	10	*	*
Timber Lake	16	*	*	32	*	*
Douglas	14	*	*	34	*	*
Armour	14	*	*	34	*	*
Edmunds	9	*	*	32	*	*
Bowdle	4	*	*	20	*	*
Ipswich	5	*	*	12	*	*
Fall River	43	*	*	118	7.6%	4.2%
Hot Springs	43	*	*	118	7.6%	4.2%
Faulk	7	*	*	22	*	*
Faulkton	7	*	*	22	*	*
Grant	40	*	*	139	7.2%	3.7%
Milbank	40	*	*	139	7.2%	3.7%
Gregory	23	*	*	64	*	*
Bonesteel	6	*	*	12	*	*
Burke	17	*	*	52	*	*
Haakon	8	*	*	24	*	*
Philip	8	*	*	24	*	*
Hamlin	40	*	*	99	*	*
Hayti	40	*	*	99	*	*
Hand	19	*	*	49	*	*
Miller	19	*	*	49	*	*
Hanson	15	*	*	51	*	*
Alexandria	15	*	*	51	*	*
Harding	2	*	*	8	*	*
Buffalo	2	*	*	8	*	*
Hughes	122	6.6%	3.8%	292	6.8%	2.5%
Pierre	122	6.6%	3.8%	292	6.8%	2.5%
Hutchinson	22	*	*	67	*	*
Freeman	7	*	*	31	*	*
Parkston	15	*	*	36	*	*
Hyde	6	*	*	23	*	*
Highmore	6	*	*	23	*	*
Jackson	39	*	*	125	8.0%	4.2%
Kadoka	6	*	*	21	*	*
Wanblee	33	*	*	104	5.8%	3.9%
Jerauld	11	*	*	21	*	*
Wessington Springs	11	*	*	21	*	*
Jones	9	*	*	34	*	*
Murdo	9	*	*	34	*	*

⁽¹⁾ Birth weights less than 2,500 grams, excludes birth weights less than 250 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 3 (Continued)

Pediatric Nutrition Surveillance System Low Birth Weight Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		Birth Weigh			Birth Weigl	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
IZ: I	Records	LBW *	Interval *	Records	LBW *	Interval
Kingsbury	7 7	*	*	28	*	*
De Smet		*	*	28		
Lake	59	*	*	151	9.3%	4.1%
Madison	59			151	9.3%	4.1%
Lawrence	121	9.1%	4.5% *	360	7.8%	2.4%
Deadwood	34	*	*	116	11.2%	5.1%
Spearfish	87			244	6.1%	2.6%
Lincoln	30	*	*	89	*	*
Canton	30	*	*	89		
Lyman	49	*	*	137	5.8%	3.4%
Kennebec	9	*	*	22	*	*
Lower Brule	40	*	*	115	4.3%	3.2%
Marshall	12	*	*	31	*	*
Britton	12	*	*	31	*	*
McCook	31	*	*	67	*	*
Salem	31	*	*	67	*	*
McPherson	10	*	*	27	*	*
Eureka	4	*	*	16	*	*
Leola	6	*	*	11	*	*
Meade	81	*	*	242	9.1%	3.2%
Faith	11	*	*	28	*	*
Sturgis	70	*	*	214	8.9%	3.4%
Miner	9	*	*	28	*	*
Howard	9	*	*	28	*	*
Minnehaha	1,050	9.1%	1.5%	2,890	9.0%	0.9%
Sioux Falls - Downtown	59	*	*	762	8.4%	1.7%
Sioux Falls - Eastside	481	9.1%	2.3%	1,019	8.8%	1.5%
Sioux Falls - Westside	510	10.0%	2.3%	1,109	9.6%	1.5%
Moody	38	*	*	98	*	*
Flandreau	38	*	*	98	*	*
Pennington	990	6.9%	1.4%	2,864	7.5%	0.8%
Ellsworth	142	3.5%	2.6%	403	7.4%	2.2%
Hill City	11	*	*	38	*	*
Rapid City	829	7.6%	1.6%	2,394	7.7%	0.9%
Wall	8	*	*	29	*	*
Perkins	16	*	*	55	*	*
Bison	2	*	*	16	*	*
Lemmon	14	*	*	39	*	*

⁽¹⁾ Birth weights less than 2,500 grams, excludes birth weights less than 250 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 3 (Continued)

Pediatric Nutrition Surveillance System Low Birth Weight Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		Birth Weig		Lov	v Birth Weig	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records	LBW	Interval	Records	LBW	Interval
Potter	13	*	*	35	*	*
Hoven	13	*	*	35	*	*
Roberts	111	6.3%	3.9%	312	7.1%	2.5%
Sisseton	111	6.3%	3.9%	312	7.1%	2.5%
Sanborn	12	*	*	36	*	*
Woonsocket	12	*	*	36	*	*
Shannon	349	8.3%	2.5%	960	7.0%	1.4%
Kyle	87	*	*	242	9.5%	3.3%
Manderson	28	*	*	72	*	*
Pine Ridge	211	8.1%	3.2%	556	6.7%	1.8%
Porcupine	23	*	*	90	*	*
Spink	33	*	*	93	*	*
Redfield	33	*	*	93	*	*
Stanley	21	*	*	50	*	*
Ft. Pierre	21	*	*	50	*	*
Sully	4	*	*	10	*	*
Onida	4	*	*	10	*	*
Tripp	35	*	*	113	4.4%	3.2%
Winner	35	*	*	113	4.4%	3.2%
Turner	24	*	*	74	*	*
Parker	7	*	*	27	*	*
Viborg	17	*	*	47	*	*
Union	43	*	*	138	5.8%	3.4%
Elk Point	43	*	*	138	5.8%	3.4%
Walworth	44	*	*	119	5.0%	3.4%
Mobridge	39	*	*	111	5.4%	3.6%
Selby	5	*	*	8	*	*
Yankton	135	8.1%	4.0%	359	7.0%	2.3%
Yankton	135	8.1%	4.0%	359	7.0%	2.3%
Ziebach	8	*	*	26	*	*
Dupree	8	*	*	26	*	*
Healthy People 2010		5.0%			5.0%	
Statewide PedNSS	4,968	8.0%	0.7%	14,159	8.0%	0.4%
National 2002		8.9%			0.0%	

 ⁽¹⁾ Birth weights less than 2,500 grams, excludes birth weights less than 250 grams.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 4 **Pediatric Nutrition Surveillance System Low Birth Weight** Reporting Period 01/01/2003 to 12/31/2003

Region**	2003 Data Low Birth Weight (1)			Three Year Data (2001-2003) Low Birth Weight (1)		
	Total Records	Percent LBW	Confidence Interval	Total Records	Percent LBW	Confidence Interval
Aberdeen Area	250	9.2%	3.2%	677	8.0%	1.8%
East Central	202	9.4%	3.5%	565	8.1%	2.0%
Huron-Redfield	122	8.2%	4.3%	411	9.0%	2.4%
Mitchell-Chamberlain	198	7.1%	3.1%	580	10.5%	2.2%
Northern Black Hills	202	6.9%	3.0%	602	8.3%	1.9%
Northeast Area	349	8.3%	2.5%	1,006	8.2%	1.5%
North Central	71	*	*	207	5.8%	2.8%
Northwest Area	103	10.7%	5.3%	334	11.1%	3.0%
Oahe Area	185	5.9%	2.9%	459	6.1%	1.9%
Pickstown Area	193	9.3%	3.6%	578	6.9%	1.8%
Pine Ridge Area	430	7.7%	2.2%	1,214	6.4%	1.2%
Rapid City Area	990	6.9%	1.4%	2,864	7.5%	0.8%
Southeast Area	243	7.0%	2.8%	700	6.3%	1.6%
Sioux Falls Area	1,050	9.1%	1.5%	2,890	9.0%	0.9%
Sioux Empire Area	153	7.8%	3.7%	409	9.8%	2.5%
South Central	158	7.0%	3.5%	472	6.1%	1.9%
Southern Black Hills	69	*	*	191	7.9%	3.3%
Healthy People 2010		5.0%			5.0%	
Statewide PedNSS	4,968	8.9%	0.7%	14,159	8.0%	0.4%
National 2002		8.9%				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level. (1) Birth weights less than 2,500 grams, excludes birth weights less than 250 grams.

* Data from regions with less than 400 grams.

Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 5

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2003 to 12/31/2003

	Troporting	2003 Data	1/2003 (0 12		Three Year Data (2001-2003)			
County	Higl	h Birth Weig	ht (2)	High Birth Weight (2)				
Clinic	Total	Percent	Confidence	Total	Percent	Confidence		
	Records	HBW	Interval	Records	HBW	Interval		
Aurora	15	*	*	46	*	*		
Plankinton	15	*	*	46	*	*		
Beadle	89	*	*	318	9.1%	2.8%		
Huron	89	*	*	318	9.1%	2.8%		
Bennett		*	*	129	24.8%	7.2%		
Martin		*	*	129	24.8%	7.2%		
Bon Homme	33	*	*	91	*	*		
Tyndall	33			91				
Brookings	117	11.1%	5.1%	340	10.6%	2.9%		
Brookings	117	11.1%	5.1%	340	10.6%	2.9%		
Brown	211	11.4%	3.8%	556	12.6%	2.5%		
Aberdeen	211	11.4%	3.8%	556	12.6%	2.5%		
Brule	18	*	*	74	*	*		
Chamberlain	15	*	*	62	*	*		
Kimball	3	*	*	12				
Buffalo	57	*	*	164	11.6%	4.4%		
Ft. Thompson	57	*	*	164	11.6%	4.4%		
Butte	59	*	*	203	5.9%	2.8%		
Belle Fourche Newell	50 9	*	*	168 35	4.2%	2.6%		
Charles Mix	101	12.9%	5.9%	322	14.9%	3.5%		
Lake Andes	32	12.9%	5.9% *	96	14.9%	3.5%		
Platte	5	*	*	24	*	*		
Wagner	64	*	*	202	12.4%	4.1%		
Clark	12	*	*	41	*	*		
Clark	12	*	*	41	*	*		
Clay	65	*	*	203	14.8%	4.4%		
Vermillion	65	*	*	203	14.8%	4.4%		
Codington	172	7.6%	3.5%	479	7.1%	2.0%		
Watertown	172	7.6%	3.5%	479	7.1%	2.0%		
Corson	1	*	*	7	*	*		
McLaughlin	1	*	*	7	*	*		
Custer	26	*	*	73	*	*		
Custer	26	*	*	73	*	*		
Davison	127	8.7%	4.3%	352	8.2%	2.5%		
Mitchell	127	8.7%	4.3%	352	8.2%	2.5%		
Day	27	*	*	90	*	*		
Webster	27	*	*	90	*	*		
Deuel	14	*	*	35	*	*		
Clear Lake	14	*	*	35	*	*		

 ⁽²⁾ Birth weights greater than 4,000 grams, excludes birth weights greater than 6,000 grams.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 5 (Continued)

Pediatric Nutrition Surveillance System High Birth Weight Reporting Period 01/01/2003 to 12/31/2003

County	Hial	2003 Data h Birth Weig	ht (2)		Three Year Data (2001-2003) High Birth Weight (2)			
Clinic	Total	Percent	Confidence	Total	Percent	Confidence		
Clinic	Records	HBW	Interval	Records	HBW	Interval		
Dewey	18	*	*	42	*	*		
Isabel	2	*	*	10	*	*		
Timber Lake	16	*	*	32	*	*		
Douglas	14	*	*	34	*	*		
Armour	14	*	*	34	*	*		
Edmunds	9	*	*	32	*	*		
Bowdle	4	*	*	20	*	*		
Ipswich	5	*	*	12	*	*		
Fall River	43	*	*	118	4.2%	3.1%		
Hot Springs	43	*	*	118	4.2%	3.1%		
Faulk	7	*	*	22	*	*		
Faulkton	7	*	*	22	*	*		
Grant	40	*	*	139	5.8%	3.4%		
Milbank	40	*	*	139	5.8%	3.4%		
Gregory	23	*	*	64	*	*		
Bonesteel	6	*	*	12	*	*		
Burke	17	*	*	52	*	*		
Haakon	8	*	*	24	*	*		
Philip	8	*	*	24	*	*		
Hamlin	40	*	*	99	*	*		
Hayti	40	*	*	99	*	*		
Hand	19	*	*	49	*	*		
Miller	19	*	*	49	*	*		
Hanson	15	*	*	51	*	*		
Alexandria	15	*	*	51	*	*		
Harding	2	*	*	8	*	*		
Buffalo	2	*	*	8	*	*		
Hughes	122	10.7%	4.9%	292	11.3%	3.2%		
Pierre	122	10.7%	4.9%	292	11.3%	3.2%		
Hutchinson	22	*	*	67	*	*		
Freeman	7	*	*	31	*	*		
Parkston	15	*	*	36	*	*		
Hyde	6	*	*	23	*	*		
Highmore	6	*	*	23	*	*		
Jackson	39	*	*	125	25.6%	7.4%		
Kadoka	6	*	*	21	*	*		
Wanblee	33	*	*	104	26.9%	8.4%		
Jerauld	11	*	*	21	*	*		
Wessington Springs	11	*	*	21	*	*		
Jones	9	*	*	34	*	*		
Murdo	9	*	*	34	*	*		

⁽²⁾ Birth weights greater than 4,000 grams, excludes birth weights greater than 6,000 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 5 (Continued)

Pediatric Nutrition Surveillance System High Birth Weight Reporting Period 01/01/2003 to 12/31/2003

County	Higl	2003 Data n Birth Weig	ht (2)	Three Year Data (2001-2003) High Birth Weight (2)		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records	HBW	Interval	Records	HBW	Interval
Kingsbury	7	*	*	28	*	*
De Smet	7	*	*	28	*	*
Lake	59	*	*	151	5.3%	3.1%
Madison	59	*	*	151	5.3%	3.1%
Lawrence	121	3.3%	2.7%	360	4.7%	1.9%
Deadwood	34	*	*	116	6.0%	3.7%
Spearfish	87	*	*	244	4.1%	2.1%
Lincoln	30	*	*	89	*	*
Canton	30	*	*	89	*	*
Lyman	49	*	*	137	5.1%	3.2%
Kennebec	9	*	*	22	*	*
Lower Brule	40	*	*	115	6.1%	3.8%
Marshall	12	*	*	31	*	*
Britton	12	*	*	31	*	*
McCook	31	*	*	67	*	*
Salem	31	*	*	67	*	*
McPherson	10	*	*	27	*	*
Eureka	4	*	*	16	*	*
Leola	6	*	*	11	*	*
Meade	81	*	*	242	8.3%	3.0%
Faith	11	*	*	28	*	*
Sturgis	70	*	*	214	7.9%	3.2%
Miner	9	*	*	28	*	*
Howard	9	*	*	28	*	*
Minnehaha	1,050	8.8%	1.5%	2,890	8.6%	0.9%
Sioux Falls - Downtown	59	*	*	762	7.3%	1.6%
Sioux Falls - Eastside	481	6.7%	1.9%	1,019	7.8%	1.4%
Sioux Falls - Westside	510	10.4%	2.3%	1,109	10.3%	1.6%
Moody	38	*	*	98	*	*
Flandreau	38	*	*	98	*	*
Pennington	990	7.9%	1.5%	2,864	7.8%	0.9%
Ellsworth	142	3.5%	2.6%	403	5.5%	1.9%
Hill City	11	*	*	38	*	*
Rapid City	829	8.7%	1.7%	2,394	8.2%	1.0%
Wall	8	*	*	29	*	*
Perkins	16	*	*	55	*	*
Bison	2	*	*	16	*	*
Lemmon	14	*	*	39	*	*

⁽²⁾ Birth weights greater than 4,000 grams, excludes birth weights greater than 6,000 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 5 (Continued)

Pediatric Nutrition Surveillance System High Birth Weight Reporting Period 01/01/2003 to 12/31/2003

		2003 Data		Three Year Data (2001-2003)			
County		h Birth Weig			h Birth Weig		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence	
	Records	HBW	Interval	Records	HBW	Interval	
Potter	13	*	*	35	*	*	
Hoven	13	*	*	35	*	*	
Roberts	111	18.0%	6.6	312	16.0%	3.7%	
Sisseton	111	18.0%	6.6%	312	16.0%	3.7%	
Sanborn	12	*	*	36	*	*	
Woonsocket	12	*	*	36	*	*	
Shannon	349	9.7%	2.7%	960	13.1%	1.9%	
Kyle	87	*	*	242	16.1%	4.2%	
Manderson	28	*	*	72	*	*	
Pine Ridge	211	8.5%	3.3%	556	11.3%	2.3%	
Porcupine	23	*	*	90	*	*	
Spink	33	*	*	93	*	*	
Redfield	33	*	*	93	*	*	
Stanley	21	*	*	50	*	*	
Ft. Pierre	21	*	*	50	*	*	
Sully	4	*	*	10	*	*	
Onida	4	*	*	10	*	*	
Tripp	35	*	*	113	7.1%	4.1%	
Winner	35	*	*	113	7.1%	4.1%	
Turner	24	*	*	74	*	*	
Parker	7	*	*	27	*	*	
Viborg	17	*	*	47	*	*	
Union	43	*	*	138	11.6%	4.8%	
Elk Point	43	*	*	138	11.6%	4.8%	
Walworth	44	*	*	119	11.8%	5.2%	
Mobridge	39	*	*	111	11.7%	5.3%	
Selby	5	*	*	8	*	*	
Yankton	135	14.1%	5.3%	359	11.4%	2.9%	
Yankton	135	14.1%	5.3%	359	11.4%	2.9%	
Ziebach	8	*	*	26	*	*	
Dupree	8	*	*	26	*	*	
Statewide PedNSS	4,968	9.4%	0.7%	14,159	9.7%	0.4%	
National 2002		7.6%					

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level. (2) Birth weights greater than 4,000 grams, excludes birth weights greater than 6,000 grams.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of

reliability or precision.

Table 6

Pediatric Nutrition Surveillance System
High Birth Weight
Reporting Period 01/01/2003 to 12/31/2003

		2003 Data		Three Year Data (2001-2003)			
Region**	Higl	n Birth Weig	ht (2)	High Birth Weight (2)			
	Total	Percent	Confidence	Total	Percent	Confidence	
	Records	HBW	Interval	Records	HBW	Interval	
Aberdeen Area	250	12.0%	3.6%	677	13.1%	2.3%	
East Central	202	11.9%	4.0%	565	11.2%	2.3%	
Huron-Redfield	122	11.5%	5.1%	411	9.5%	2.5%	
Mitchell-Chamberlain	198	8.6%	3.4%	580	8.6%	2.0%	
Northern Black Hills	202	4.0%	2.3%	602	6.1%	1.7%	
Northeast Area	349	10.6%	2.9%	1,006	9.5%	1.6%	
North Central	71	*	*	207	12.1%	4.0%	
Northwest Area	103	7.8%	4.5%	334	6.9%	2.4%	
Oahe Area	185	9.7%	3.8%	459	11.3%	2.6%	
Pickstown Area	193	11.4%	4.0%	578	13.5%	2.5%	
Pine Ridge Area	430	11.9%	2.7%	1,214	15.7%	1.9%	
Rapid City Area	990	7.9%	1.5%	2,864	7.8%	0.9%	
Southeast Area	243	13.2%	3.8%	700	12.4%	2.2%	
Sioux Falls Area	1,050	8.8%	1.5%	2,890	8.6%	0.9%	
Sioux Empire Area	153	7.2%	3.6%	409	6.6%	2.1%	
South Central	158	9.5%	4.0%	472	7.6%	2.1%	
Southern Black Hills	69	*	*	191	4.2%	2.4%	
Statewide PedNSS	4,968	9.4%	0.7%	14,159	9.7%	0.4%	
National 2002	·	7.6%		·			

⁽²⁾ Birth weights greater than 4,000 grams, excludes birth weights greater than 6,000 grams.

^{*} Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Short Stature

Short stature is defined as a height-for-age below the 5th percentile for children of the same height and age in the reference populations used by the National Center for Health Statistics (NCHS) / CDC. Measurements of height are obtained by recumbent (lying down) measurement in children through 24 months and by upright measurement in children over 24 months.

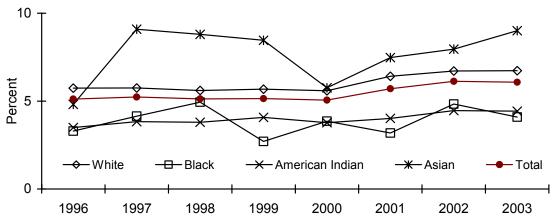
Short stature may be evidence of compromised health, delayed development, and poor diet. Compromised nutrition, and/or infectious and chronic disease may impair full growth potential. The Healthy People 2010 target on pediatric stunting is to "reduce growth retardation among low-income children under 5 years" to 5 percent. The South Dakota rate of short stature among PedNSS records in 2003 was 6.1 percent, the same as it was in 2002. The South Dakota PedNSS population had a short stature rate of 6.0 percent over the three-year period 2001-2003. The United States PedNSS population had a short stature rate of 6.3 percent in calendar year 2002.

Figure 6 South Dakota PedNSS Prevalence of Short Stature* Among Children Aged <5 Years, by Race 15 ■ South Dakota
■ Nation 10 Year 2010 5 target* 0 White Black American Asian Total Indian

* < 5th percentile length or height-for-age, CDC Growth Charts, 2000.

^{**} Reduce growth retardation (short stature) among low-income children under age 5 years to 5%.

Figure 7
South Dakota PedNSS
Trends in Prevalence of Short Stature*
by Race



^{* &}lt; 5th percentile length or height-for-age, CDC Growth Charts, 2000. Year 2010 target: Reduce growth retardation (short stature) among low-income children under age 5 years to 5%.

The percentage of short stature varied by race in South Dakota's 2003 PedNSS population. The rates were 6.7 percent for whites, 4.1 percent for blacks, 4.4 percent for American Indians or Alaskan Natives, and 9.0 percent for Asian or Pacific Islander. The age breakdown for this population was: less than one year, 9.1 percent, one year, 4.8 percent and 2-4 years of age, 3.9 percent.

Table 7

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2003 to 12/31/2003

Country		2003 Data	(2)		ear Data (20	
County		Height-for-A			Height-for-A	
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Auroro	76	*	iiileivai *	221	7.2%	3.0%
Aurora Plankinton	7 6 76	*	*	221	7.2%	3.0%
Beadle	445	7.9%	2.2%	1,324	8.7%	1.3%
Huron	445	7. 9% 7.9%	2.2%	1,324	8.7%	1.3%
Bennett	194	5.2%	2.7%	583	5.7%	1.6%
Martin	194	5.2% 5.2%	2.7%	583	5.7%	1.6%
Bon Homme	166	10.2%	4.1%	453	8.4%	2.2%
Tyndall	166	10.2%	4.1%	453 453	8.4%	2.2%
Brookings	465	4.9%	1.7%	1,386	5.7%	1.1%
Brookings	465 465	4.9%	1.7%	1,386	5.7%	1.1%
Brown	760	6.6%	1.5%	2,201	5.3%	0.8%
Aberdeen	760 760	6.6%	1.5%	2,201	5.3%	0.8%
Brule	120	1.7%	2.0%	382	3.7%	1.6%
Chamberlain	97	1.770	2.0 % *	320	3.7%	1.7%
Kimball	23	*	*	62	3. 4 /0 *	*
Buffalo	237	3.4%	2.0%	647	3.9%	1.3%
Ft. Thompson	237	3.4%	2.0%	647	3.9%	1.3%
Butte	293	7.8%	2.7%	910	5.9%	1.3%
Belle Fourche	246	8.1%	3.0%	763	6.6%	1.5%
Newell	47	O.170 *	3.0 /0 *	147	2.7%	2.2%
Charles Mix	473	3.6%	1.4%	1,456	3.6%	0.8%
Lake Andes	133	2.3%	2.2%	414	3.4%	1.5%
Platte	49	*	*	142	3.5%	2.6%
Wagner	291	4.1%	2.0%	900	3.8%	1.1%
Clark	70	*	*	231	6.5%	2.8%
Clark	70	*	*	231	6.5%	2.8%
Clay	288	6.6%	2.5%	902	4.5%	1.2%
Vermillion	288	6.6%	2.5%	902	4.5%	1.2%
Codington	683	5.7%	1.5%	2,020	6.3%	0.9%
Watertown	683	5.7%	1.5%	2,020	6.3%	0.9%
Corson	14	*	*	46	*	*
McLaughlin	14	*	*	46	*	*
Custer	106	5.7%	3.8%	319	9.1%	2.8%
Custer	106	5.7%	3.8%	319	9.1%	2.8%
Davison	482	6.8%	2.0%	1,321	6.8%	1.2%
Mitchell	482	6.8%	2.0%	1,321	6.8%	1.2%
Day	162	3.7%	2.5%	507	4.1%	1.5%
Webster	162	3.7%	2.5%	507	4.1%	1.5%
Deuel	58	*	*	158	4.4%	2.7%
Clear Lake	58	*	*	158	4.4%	2.7%

⁽³⁾ Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older, excludes biologically implausible values for height, weight, and age.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System Low Height-for-Age Reporting Period 01/01/2003 to 12/31/2003

County	Low	2003 Data Height-for-A	go (3)		ear Data (20 Height-for-A	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
Clinic	Records	Percent	Interval	Records	Percent	Interval
Dewey	66	*	*	192	10.4%	3.8%
Isabel	16	*	*	61	*	*
Timber Lake	50	*	*	131	12.2%	5.0%
Douglas	65	*	*	184	4.9%	2.7%
Armour	65	*	*	184	4.9%	2.7%
Edmunds	54	*	*	170	5.9%	3.1%
Bowdle	37	*	*	122	7.4%	4.1%
Ipswich	17	*	*	48	*	*
Fall River	182	8.2%	3.5%	574	7.5%	1.9%
Hot Springs	182	8.2%	3.5%	574	7.5%	1.9%
Faulk	40	*	*	121	2.5%	2.4%
Faulkton	40	*	*	121	2.5%	2.4%
Grant	181	3.3%	2.2%	531	5.1%	1.6%
Milbank	181	3.3%	2.2%	531	5.1%	1.6%
Gregory	110	7.3%	4.2%	316	7.0%	2.4%
Bonesteel	25	*	*	87	*	*
Burke	85	*	*	229	6.6%	2.8%
Haakon	47	*	*	149	4.7%	2.9%
Philip	47	*	*	149	4.7%	2.9%
Hamlin	166	12.0%	4.4%	452	9.5%	2.4%
Hayti	166	12.0%	4.4%	452	9.5%	2.4%
Hand	77	*	*	254	5.1%	2.3%
Miller	77	*	*	254	5.1%	2.3%
Hanson	82	*	*	240	5.0%	2.4%
Alexandria	82	*	*	240	5.0%	2.4%
Harding	13	*	*	40	*	*
Buffalo	13	*	*	40	*	*
Hughes	417	7.7%	2.2%	1,114	5.5%	1.2%
Pierre	417	7.7%	2.2%	1,114	5.5%	1.2%
Hutchinson	115	12.2%	5.4%	317	8.8%	2.7%
Freeman	54	*	*	138	10.9%	4.6%
Parkston	61	*	*	179	7.3%	3.3%
Hyde	49	*	*	129	5.4%	3.4%
Highmore	49	*	*	129	5.4%	3.4%
Jackson	217	3.2%	2.0%	638	3.6%	1.2%
Kadoka	48	*	*	158	6.3%	3.3%
Wanblee	169	3.6%	2.4%	480	2.7%	1.2%
Jerauld	37	*	*	84	*	*
Wessington Springs	37	*	*	84	*	*
Jones	45	*	*	165	4.2%	2.6%
Murdo	45	*	*	165	4.2%	2.6%

⁽³⁾ Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older, excludes biologically implausible values for height, weight, and age.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System Low Height-for-Age Reporting Period 01/01/2003 to 12/31/2003

		2003 Data	(2)		ear Data (20	
County		Height-for-A			Height-for-A	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
IZ! I	Records	*	Interval *	Records	0.40/	Interval
Kingsbury	47	*	*	148	8.1%	3.8%
De Smet	47			148	8.1%	3.8%
Lake	205	7.3%	3.1%	590	8.1%	1.9%
Madison	205	7.3%	3.1%	590	8.1%	1.9%
Lawrence	446	7.8%	2.2%	1,281	7.7%	1.3%
Deadwood	147	6.8%	3.5%	415	8.0%	2.3%
Spearfish	299	8.4%	2.8%	866	7.6%	1.5%
Lincoln	133	6.8%	3.7%	378	6.1%	2.1%*
Canton	133	6.8%	3.7%	378	6.1%	2.1%
Lyman	241	5.4%	2.5%	691	5.4%	1.5%
Kennebec	44	*	*	122	7.4%	4.1%
Lower Brule	197	5.6%	2.8%	569	4.9%	1.5%
Marshall	51	*	*	162	3.7%	2.5%
Britton	51	*	*	162	3.7%	2.5%
McCook	110	10.0%	5.0%	327	9.2%	2.8%
Salem	110	10.0%	5.0%	327	9.2%	2.8%
McPherson	45	*	*	131	3.8%	2.8%
Eureka	22	*	*	75	*	*
Leola	23	*	*	56	*	*
Meade	399	4.0%	1.6%	1,165	5.1%	1.1%
Faith	53	*	*	147	2.7%	2.2%
Sturgis	346	4.6%	1.9%	1,018	5.4%	1.2%
Miner	44	*	*	124	6.5%	3.8%
Howard	44	*	*	124	6.5%	3.8%
Minnehaha	3,500	6.5%	0.7%	9,819	6.5%	0.4%
Sioux Falls - Downtown	211	3.3%	2.1%	2,663	5.5%	0.7%
Sioux Falls - Eastside	1,611	5.7%	1.0%	3,471	5.7%	0.7%
Sioux Falls - Westside	1,678	7.7%	1.1%	3,685	8.0%	0.8%
Moody	146	5.5%	3.2%	386	7.0%	2.2%
Flandreau	146	5.5%	3.2%	386	7.0%	2.2%
Pennington	3,816	6.8%	0.7%	10,925	6.6%	0.4%
Ellsworth	525	4.8%	1.6%	1,582	6.4%	1.0%
Hill City	66	*	*	174	4.6%	2.7%
Rapid City	3,191	7.1%	0.8%	9,047	6.7%	0.4%
Wall	34	*	*	122	4.9%	3.3%
Perkins	110	4.5%	3.3%	342	4.1%	1.8%
Bison	32	*	*	105	6.7%	4.2%
Lemmon	78	*	*	237	3.0%	1.9%

⁽³⁾ Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older, excludes biologically implausible values for height, weight, and age.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 7 (Continued)

Pediatric Nutrition Surveillance System Low Height-for-Age Reporting Period 01/01/2003 to 12/31/2003

		2003 Data	(0)		ear Data (20	
County		Height-for-A			Height-for-A	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Potter	57	*	*	165	3.0%	2.2%
Hoven	57			165	3.0%	2.2%
Roberts	435	2.8%	1.3%	1,316	3.3%	0.8%
Sisseton	435	2.8%	1.3%	1,316	3.3%	0.8%
Sanborn	48	*	*	151	9.9%	4.2%
Woonsocket	48	*	*	151	9.9%	4.2%
Shannon	1,294	4.2%	0.9%	3,783	3.7%	0.5%
Kyle	340	3.5%	1.7%	1,057	3.9%	1.0%
Manderson	92	*	*	266	3.0%	1.7%
Pine Ridge	732	4.4%	1.3%	2,037	3.8%	0.7%
Porcupine	130	4.6%	3.1%	423	3.1%	1.4%
Spink	133	2.3%	2.2%	397	4.5%	1.8%
Redfield	133	2.3%	2.2%	397	4.5%	1.8%
Stanley	114	7.0%	4.1%	261	7.3%	2.8%
Ft. Pierre	114	7.0%	4.1%	261	7.3%	2.8%
Sully	19	*	*	47	*	*
Onida	19	*	*	47	*	*
Tripp	165	4.8%	2.8%	476	5.9%	1.8%
Winner	165	4.8%	2.8%	476	5.9%	1.8%
Turner	99	*	*	297	3.4%	1.8%
Parker	36	*	*	108	5.6%	3.7%
Viborg	63	*	*	189	2.1%	1.7%
Union	139	4.3%	2.9%	432	5.6%	1.9%
Elk Point	139	4.3%	2.9%	432	5.6%	1.9%
Walworth	180	2.8%	2.1%	550	4.9%	1.6%
Mobridge	160	2.5%	2.1%	509	5.1%	1.6%
Selby	20	*	*	41	*	*
Yankton	504	7.3%	2.0%	1,439	7.2%	1.2%
Yankton	504	7.3%	2.0%	1,439	7.2%	1.2%
Ziebach	43	*	*	148	2.0%	1.9%
Dupree	43	*	*	148	2.0%	1.9%
•						
Statewide PedNSS	19,578	6.1%	0.3%	56,668	6.0%	0.2%
National 2002		6.3%				

⁽³⁾ Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older, excludes biologically implausible values for height, weight, and age

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 8

Pediatric Nutrition Surveillance System
Low Height-for-Age
Reporting Period 01/01/2003 to 12/31/2003

Pogion**	Low	2003 Data	go (2)	Three Year Data (2001-2003)			
Region**		Height-for-A		Low Height-for-Age (3)			
	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records		Interval	
Aberdeen Area	973	6.1%	1.3%	2,870	5.0%	0.7%	
East Central	824	6.4%	1.4%	2,372	6.8%	0.9%	
Huron-Redfield	578	6.6%	1.8%	1,721	7.7%	1.1%	
Mitchell-Chamberlain	845	6.2%	1.4%	2,399	6.5%	0.9%	
Northern Black Hills	845	6.0%	1.4%	2,446	6.5%	0.8%	
Northeast Area	1,427	4.3%	0.9%	4,256	5.2%	0.6%	
North Central	333	3.0%	1.6%	1,018	4.5%	1.1%	
Northwest Area	525	7.8%	2.0%	1,632	5.7%	1.0%	
Oahe Area	733	6.5%	1.5%	1,970	5.3%	0.9%	
Pickstown Area	929	6.1%	1.3%	2,726	5.5%	0.7%	
Pine Ridge Area	1,705	4.2%	0.8%	5,004	3.9%	0.5%	
Rapid City Area	3,816	6.8%	0.7%	10,925	6.6%	0.4%	
Southeast Area	931	6.7%	1.4%	2,773	6.1%	0.8%	
Sioux Falls Area	3,500	6.5%	0.7%	9,819	6.5%	0.4%	
Sioux Empire Area	591	7.1%	1.8%	1,716	6.9%	1.0%	
South Central	735	4.9%	1.3%	2,128	4.9%	0.8%	
Southern Black Hills	288	7.3%	2.6%	893	8.1%	1.6%	
Statewide PedNSS	19,578	6.1%	0.3%	56,668	6.0%	0.2%	
National 2002		6.3%					

⁽³⁾ Low Height-For-Age: less than 5th percentile based on 2000 CDC growth chart percentiles for length-for-age for children under 2 years of age and height-for-age for children 2 years of age and older, excludes biologically implausible values for height, weight, and age

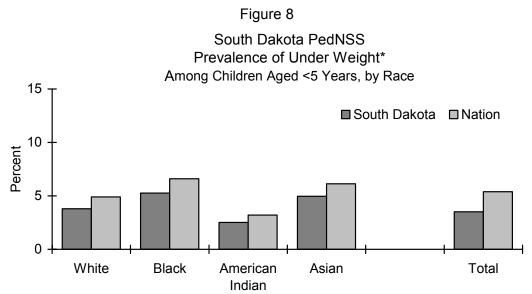
^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

<u>Underweight/Overweight (Children less than 5 years of age)</u>

Children up to age 2 years and infants falling below the 5th percentile in weight for height, compared to children of the same sex and age in the CDC reference population, are considered to be underweight. Children 2 years and older whose BMI-for-age falls below the 5th percentile are considered to be underweight. The conditions contributing to the higher percentage of low weight-for-height are inadequate dietary intake, failure to thrive, chronic and infectious diseases, and other normal variations within a population.

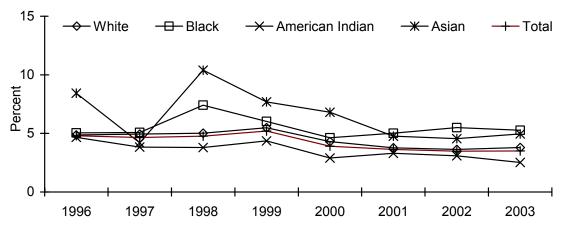
The percent prevalence of underweight infants and children was 3.5 percent in the South Dakota PedNSS data for 2003, the same as it was in 2002. The South Dakota PedNSS population had a low weight-for-height rate of 3.5 percent over the three-year period 2001-2003. The United States PedNSS population had a low weight-for-height rate of 5.4 percent in calendar year 2002.

The percent prevalence of underweight children by race in South Dakota's 2003 PedNSS population was 3.8 percent for whites, 5.3 percent for blacks, 2.5 for American Indians and Alaskan Natives, and 5.0 percent for Asian or Pacific Islanders. The age breakdown for this population was: less than one year, 4.7 percent, one year, 2.9 percent and 2-4 years of age, 2.7 percent.



 ^{* &}lt; 5th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000.
 5% of children are expected to fall below the 5th percentile.

Figure 9
South Dakota PedNSS
Trends in Prevalence of Underweight*
by Race



* < 5th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000. 5% of children are expected to fall below the 5th percentile.

Children up to age 2 years and infants falling at the 95th percentile and above, compared to children of the same sex and age in the CDC reference population, are considered to be overweight. Children 2 years and older whose BMI-for-age falls at the 95th percentile and above are considered to be overweight.

The percent prevalence of overweight children by race in South Dakota's 2003 PedNSS population was 10.6 percent for whites, 13.3 percent for blacks, 18.1 for American Indians and Alaskan Natives, and 9.5 percent for Asian or Pacific Islanders. The age breakdown for this population was: less than one year, 9.8 percent, one year, 16.6 percent and 2-4 years of age, 13.6 percent.

Figure 10 South Dakota PedNSS Prevalence of Overweight* Among Children Aged <5 Years, by Race 20 ■ South Dakota ■ Nation 15 Percent 10 5 0 White Black American Asian Total

* > 95th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000. 5% of children are expected to fall above the 95th percentile.

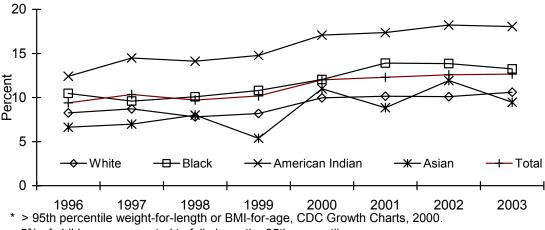
Indian

Figure 11

South Dakota PedNSS

Trends in Prevalence of Overweight*

Among Children Aged <5 Years, by Race



Pediatric Nutrition Surveillance System
Low Weight-for-Height
Reporting Period 01/01/2003 to 12/31/2003

Table 9

		2003 Data		Three Year Data (2001-2003)			
County	Low W	eight-for-He	eight (4)	Low W	eight-for-He	ight (4)	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records		Interval	
Aurora	76	*	*	221	1.8%	1.5%	
Plankinton	76	*	*	221	1.8%	1.5%	
Beadle	445	3.4%	1.4%	1,324	4.8%	1.0%	
Huron	445	3.4%	1.4%	1,324	4.8%	1.0%	
Bennett	194	2.6%	1.9%	583	2.1%	1.0%	
Martin	194	2.6%	1.9%	583	2.1%	1.0%	
Bon Homme	166	4.8%	2.8%	453	4.0%	1.5%	
Tyndall	166	4.8%	2.8%	453	4.0%	1.5%	
Brookings	465	1.9%	1.1%	1,386	2.7%	0.7%	
Brookings	465	1.9%	1.1%	1,386	2.7%	0.7%	
Brown	760	4.5%	1.3%	2,201	4.2%	0.7%	
Aberdeen	760	4.5%	1.3%	2,201	4.2%	0.7%	
Brule	120	5.0%	3.4%	382	2.6%	1.4%	
Chamberlain	97	*	*	320	2.2%	1.4%	
Kimball	23	*	*	62	*	*	
Buffalo	237	0.8%	1.0%	647	2.2%	1.0%	
Ft. Thompson	237	0.8%	1.0%	647	2.2%	1.0%	
Butte	293	6.1%	2.4%	910	5.7%	1.3%	
Belle Fourche	246	4.1%	2.1%	763	3.9%	1.2%	
Newell	47	*	*	147	15.0%	5.3%	
Charles Mix	473	2.5%	1.2%	1,456	2.1%	0.6%	
Lake Andes	133	3.0%	2.5%	414	1.7%	1.1%	
Platte	49		*	142	2.8%	2.3%	
Wagner	291	2.4%	1.5%	900	2.2%	0.8%	
Clark	70	*	*	231	3.5%	2.0%	
Clark	70			231	3.5%	2.0%	
Clay	288	5.9%	2.4%	902	4.1%	1.1%	
Vermillion	288	5.9%	2.4%	902	4.1%	1.1%	
Codington	683	3.2%	1.1%	2,020	3.4%	0.7%	
Watertown	683	3.2%	1.1%	2,020	3.4%	0.7%	
Corson	14	*	*	46	*	*	
McLaughlin	14			46			
Custer	106	0.9%	1.5%	319	1.3%	1.1%	
Custer	106	0.9%	1.5%	319	1.3%	1.1%	
Davison	482	3.5%	1.4%	1,321	3.6%	0.9%	
Mitchell	482	3.5%	1.4%	1,321	3.6%	0.9%	
Day	162	2.5%	2.0%	507	2.4%	1.1%	
Webster	162	2.5%	2.0%	507	2.4%	1.1%	
Deuel	58	*	*	158	3.2%	2.3%	
Clear Lake	58	*	*	158	3.2%	2.3%	

⁽⁴⁾ Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System Low Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

	2003 Data Low Weight-for-Height (4)			Three Year Data (2001-2003) Low Weight-for-Height (4)		
County						
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Dewey	66	*	*	192	5.2%	2.7%
Isabel	16	*	*	61	*	*
Timber Lake	50	*	*	131	5.3%	3.3%
Douglas	65	*	*	184	3.8%	2.4%
Armour	65	*	*	184	3.8%	2.4%
Edmunds	54	*	*	170	2.9%	2.1%
Bowdle	37	*	*	122	3.3%	2.7%
Ipswich	17	*	*	48	*	*
Fall River	182	4.4%	2.6%	574	2.6%	1.1%
Hot Springs	182	4.4%	2.6%	574	2.6%	1.1%
Faulk	40	*	*	121	3.3%	2.7%
Faulkton	40	*	*	121	3.3%	2.7%
Grant	181	5.5%	2.9%	531	3.8%	1.4%
Milbank	181	5.5%	2.9%	531	3.8%	1.4%
Gregory	110	1.8%	2.1%	316	2.8%	1.5%
Bonesteel	25	*	*	87	*	*
Burke	85	*	*	229	3.5%	2.0%
Haakon	47	*	*	149	2.7%	2.2%
Philip	47	*	*	149	2.7%	2.2%
Hamlin	166	1.8%	1.7%	452	1.5%	0.9%
Hayti	166	1.8%	1.7%	452	1.5%	0.9%
Hand	77	*	*	254	2.8%	1.7%
Miller	77	*	*	254	2.8%	1.7%
Hanson	82	*	*	240	6.3%	2.7%
Alexandria	82	*	*	240	6.3%	2.7%
Harding	13	*	*	40	*	*
Buffalo	13	*	*	40	*	*
Hughes	417	2.2%	1.2%	1,114	1.7%	0.6%
Pierre	417	2.2%	1.2%	1,114	1.7%	0.6%
Hutchinson	115	5.2%	3.5%	317	5.7%	2.2%
Freeman	54	*	*	138	2.9%	2.4%
Parkston	61	*	*	179	7.8%	3.4%
Hyde	49	*	*	129	1.6%	1.8%
Highmore	49	*	*	129	1.6%	1.8%
Jackson	217	0.9%	1.1%	638	2.0%	0.9%
Kadoka	48	*	*	158	3.2%	2.3%
Wanblee	169	0.6%	1.0%	480	1.7%	1.0%
Jerauld	37	*	*	84	*	*
Wessington Springs	37	*	*	84	*	*
Jones	45	*	*	165	3.0%	2.2%
Murdo	45	*	*	165	3.0%	2.2%

⁽⁴⁾ Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System Low Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		/eight-for-He			eight-for-He	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records	*	Interval *	Records	. =0/	Interval
Kingsbury	47	*	*	148	4.7%	2.9%
De Smet	47			148	4.7%	2.9%
Lake	205	2.9%	2.0%	590	2.7%	1.1%
Madison	205	2.9%	2.0%	590	2.7%	1.1%
Lawrence	446	4.5%	1.7%	1,281	6.6%	1.2%
Deadwood	147	5.4%	3.2%	415	4.8%	1.8%
Spearfish	299	4.0%	1.9%	866	7.4%	1.5%
Lincoln	133	3.8%	2.8%	378	2.1%	1.2%
Canton	133	3.8%	2.8%	378	2.1%	1.2%
Lyman	241	2.9%	1.8%	691	1.6%	0.8%
Kennebec	44	*	*	122	2.5%	2.4%
Lower Brule	197	2.0%	1.7%	569	1.4%	0.8%
Marshall	51	*	*	162	4.9%	2.9%
Britton	51	*	*	162	4.9%	2.9%
McCook	110	1.8%	2.1%	327	1.2%	1.0%
Salem	110	1.8%	2.1%	327	1.2%	1.0%
McPherson	45	*	*	131	3.8%	2.8%
Eureka	22	*	*	75	*	*
Leola	23	*	*	56	*	*
Meade	399	2.5%	1.3%	1,165	2.2%	0.7%
Faith	53	*	*	147	1.4%	1.6%
Sturgis	346	2.9%	1.5%	1,018	2.4%	0.8%
Miner	44	*	*	124	5.6%	3.5%
Howard	44	*	*	124	5.6%	3.5%
Minnehaha	3,500	3.7%	0.5%	9,819	3.4%	0.3%
Sioux Falls - Downtown	211	3.8%	2.2%	2,663	4.0%	0.6%
Sioux Falls - Eastside	1,611	4.0%	0.8%	3,471	3.2%	0.5%
Sioux Falls - Westside	1,678	3.4%	0.7%	3,685	3.1%	0.5%
Moody	146	2.7%	2.2%	386	1.6%	1.1%
Flandreau	146	2.7%	2.2%	386	1.6%	1.1%
Pennington	3,816	3.7%	0.5%	10,925	4.0%	0.3%
Ellsworth	525	4.6%	1.5%	1,582	5.4%	1.0%
Hill City	66	*	*	174	3.4%	2.3%
Rapid City	3,191	3.6%	0.6%	9,047	3.7%	0.3%
Wall	34	*	*	122	6.6%	3.8%
Perkins	110	0.9%	1.5%	342	2.0%	1.3%
Bison	32	*	*	105	1.9%	2.2%
Lemmon	78	*	*	237	2.1%	1.5%

⁽⁴⁾ Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 9 (Continued)

Pediatric Nutrition Surveillance System Low Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

County	Low W	2003 Data /eight-for-He	eight (4)		ear Data (20 eight-for-He	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Potter	57	*	*	165	1.8%	1.7%
Hoven	57	*	*	165	1.8%	1.7%
Roberts	435	3.0%	1.4%	1,316	2.5%	0.7%
Sisseton	435	3.0%	1.4%	1,316	2.5%	0.7%
Sanborn	48	*	*	151	2.0%	1.9%
Woonsocket	48	*	*	151	2.0%	1.9%
Shannon	1,294	3.9%	0.9%	3,783	5.4%	0.6%
Kyle	340	2.1%	1.3%	1,057	1.8%	0.7%
Manderson	92	*	*	266	5.3%	2.3%
Pine Ridge	732	4.0%	1.2%	2,037	6.9%	1.0%
Porcupine	130	7.7%	4.0%	423	7.6%	2.2%
Spink	133	4.5%	3.0%	397	3.5%	1.5%
Redfield	133	4.5%	3.0%	397	3.5%	1.5%
Stanley	114	2.6%	2.5%	261	1.9%	1.4%
Ft. Pierre	114	2.6%	2.5%	261	1.9%	1.4%
Sully	19	*	*	47	*	*
Onida	19	*	*	47	*	*
Tripp	165	4.8%	2.8%	476	2.7%	1.2%
Winner	165	4.8%	2.8%	476	2.7%	1.2%
Turner	99	*	*	297	2.4%	1.5%
Parker	36	*	*	108	2.8%	2.6%
Viborg	63	*	*	189	2.1%	1.7%
Union	139	4.3%	2.9%	432	3.9%	1.6%
Elk Point	139	4.3%	2.9%	432	3.9%	1.6%
Walworth	180	2.2%	1.8%	550	2.5%	1.1%
Mobridge	160	2.5%	2.1%	509	2.8%	1.2%
Selby	20	*	*	41	*	*
Yankton	504	2.6%	1.2%	1,439	3.3%	0.8%
Yankton	504	2.6%	1.2%	1,439	3.3%	0.8%
Ziebach	43	*	*	148	4.1%	2.7%
Dupree	43	*	*	148	4.1%	2.7%
Statewide PedNSS	18,801	3.5%	0.2%	56,668	3.5%	0.1%
National 2002	_,	5.4%				

⁽⁴⁾ Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 10 (Continued)

Pediatric Nutrition Surveillance System Low Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

		2003 Data		Three Year Data (2001-2003)			
Region**		eight-for-He		Low Weight-for-Height (4)			
	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		1.1%	Records		Interval	
Aberdeen Area	973	4.1%	1.1%	2,870	3.9%	0.6%	
East Central	824	2.3%	0.9%	2,372	2.4%	0.5%	
Huron-Redfield	578	3.6%	1.3%	1,721	4.5%	0.8%	
Mitchell-Chamberlain	845	3.9%	1.1%	2,399	3.4%	0.6%	
Northern Black Hills	845	3.6%	1.1%	2,446	4.5%	0.7%	
Northeast Area	1,427	3.4%	0.8%	4,256	3.1%	0.4%	
North Central	333	3.0%	1.6%	1,018	2.8%	0.9%	
Northwest Area	525	4.4%	1.5%	1,632	4.7%	0.9%	
Oahe Area	733	2.5%	1.0%	1,970	1.9%	0.5%	
Pickstown Area	929	3.4%	1.0%	2,726	3.0%	0.5%	
Pine Ridge Area	1,705	3.3%	0.7%	5,004	4.6%	0.5%	
Rapid City Area	3,816	3.7%	0.5%	10,925	4.0%	0.3%	
Southeast Area	931	3.9%	1.1%	2,773	3.6%	0.6%	
Sioux Falls Area	3,500	3.7%	0.5%	9,819	3.4%	0.3%	
Sioux Empire Area	591	3.0%	1.2%	1,716	2.4%	0.6%	
South Central	735	2.9%	1.0%	2,128	2.2%	0.5%	
Southern Black Hills	288	3.1%	1.7%	893	2.1%	0.8%	
Statewide PedNSS	19,578	3.5%	0.2%	56,668	3.5%	0.1%	
National 2002		5.4%					

⁽⁴⁾ Low Weight-For-Height: less than 5th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and height-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Pediatric Nutrition Surveillance System
High Weight-for-Height
Reporting Period 01/01/2003 to 12/31/2003

Table 11

		2003 Data			ear Data (20	
County	High W	eight-for-He	eight (5)	High W	/eight-for-He	eight (5)
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Aurora	76	*	*	221	13.6%	4.1%
Plankinton	76	*	*	221	13.6%	4.1%
Beadle	445	10.3%	2.5%	1,324	10.4%	1.5%
Huron	445	10.3%	2.5%	1,324	10.4%	1.5%
Bennett	194	20.6%	5.4%	583	23.2%	3.3%
Martin	194	20.6%	5.4%	583	23.2%	3.3%
Bon Homme	166	15.1%	5.0%	453	12.4%	2.7%
Tyndall	166	15.1%	5.0%	453	12.4%	2.7%
Brookings	465	8.6%	2.2%	1,386	9.7%	1.4%
Brookings	465	8.6%	2.2%	1,386	9.7%	1.4%
Brown	760	12.1%	2.1%	2,201	12.0%	1.2%
Aberdeen	760	12.1%	2.1%	2,201	12.0%	1.2%
Brule	120	11.7%	5.1%	382	14.4%	3.2%
Chamberlain	97	*	*	320	14.7%	3.5%
Kimball	23	*	*	62	*	*
Buffalo	237	23.3%	5.2%	647	21.2%	3.0%
Ft. Thompson	237	23.3%	5.2%	647	21.2%	3.0%
Butte	293	11.3%	3.2%	910	11.6%	1.9%
Belle Fourche	246	11.8%	3.6%	763	12.6%	2.1%
Newell	47	*	*	147	6.8%	3.5%
Charles Mix	473	15.4%	3.0%	1,456	18.1%	1.8%
Lake Andes	133	14.3%	5.4%	414	18.4%	3.5%
Platte	49	*	*	142	8.5%	4.0%
Wagner	291	17.9%	4.1%	900	19.6%	2.4%
Clark	70	*	*	231	9.1%	3.3%
Clark	70		*	231	9.1%	3.3%
Clay	288	9.0%	2.9%	902	10.5%	1.8%
Vermillion	288	9.0%	2.9%	902	10.5%	1.8%
Codington	683	13.5%	2.3%	2,020	12.6%	1.3%
Watertown	683	13.5%	2.3%	2,020	12.6%	1.3%
Corson	14	*	*	46	*	*
McLaughlin	14	*	*	46	*	*
Custer	106	8.5%	4.7%	319	9.4%	2.8%
Custer	106	8.5%	4.7%	319	9.4%	2.8%
Davison	482	11.6%	2.6%	1,321	11.0%	1.5%
Mitchell	482	11.6%	2.6%	1,321	11.0%	1.5%
Day	162	12.3%	4.5%	507	11.0%	2.4%
Webster	162	12.3%	4.5%	507	11.0%	2.4%
Deuel	58	*	*	158	11.4%	4.4%
Clear Lake	58	*	*	158	11.4%	4.4%

⁽⁵⁾ High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 11 (Continued)

Pediatric Nutrition Surveillance System High Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		eight-for-He			/eight-for-He	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records	*	Interval *	Records	40.00/	Interval
Dewey	66	*	*	192	10.9%	3.9%
Isabel	16	*	*	61	44.50/	4.00/
Timber Lake	50	*	*	131	11.5%	4.9%
Douglas	65	*	*	184	12.5%	4.3%
Armour	65		*	184	12.5%	4.3%
Edmunds	54	*		170	11.8%	4.3%
Bowdle	37	*	*	122	12.3%	5.2%
Ipswich	17	8.0%	11.3%	48	*	*
Fall River	182	14.8%	4.7%	574	14.1%	2.6%
Hot Springs	182	14.8%	4.7%	574	14.1%	2.6%
Faulk	40	*	*	121	13.2%	5.4%
Faulkton	40	*	*	121	13.2%	5.4%
Grant	181	11.0%	4.1%	531	15.1%	2.8%
Milbank	181	11.0%	4.1%	531	15.1%	2.8%
Gregory	110	8.2%	4.5%	316	8.5%	2.7%
Bonesteel	25	*	*	87	*	*
Burke	85	*	*	229	6.1%	2.7%
Haakon	47	*	*	149	13.4%	4.9%
Philip	47	*	*	149	13.4%	4.9%
Hamlin	166	7.8%	3.6%	452	8.4%	2.2%
Hayti	166	7.8%	3.6%	452	8.4%	2.2%
Hand	77	*	*	254	7.1%	2.8%
Miller	77	*	*	254	7.1%	2.8%
Hanson	82	*	*	240	8.8%	3.1%
Alexandria	82	*	*	240	8.8%	3.1%
Harding	13	*	*	40	*	*
Buffalo	13	*	*	40	*	*
Hughes	417	18.9%	3.5%	1,114	16.8%	2.0%
Pierre	417	18.9%	3.5%	1,114	16.8%	2.0%
Hutchinson	115	9.6%	4.8%	317	9.8%	2.9%
Freeman	54	*	*	138	13.0%	5.0%
Parkston	61	*	*	179	7.3%	3.3%
Hyde	49	*	*	129	19.4%	6.4%
Highmore	49	*	*	129	19.4%	6.4%
Jackson	217	20.7%	5.1%	638	25.7%	3.3%
Kadoka	48	*	*	158	26.6%	6.7%
Wanblee	169	21.3%	5.8%	480	25.4%	3.8%
Jerauld	37	*	*	84	*	*
Wessington Springs	37 37	*	*	84	*	*
Jones	45	*	*	165	9.1%	3.9%
Murdo	45	*	*	165	9.1%	3.9%
iviuiuo	40			100	J. I /0	J. J /0

⁽⁵⁾ High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 11 (Continued)

Pediatric Nutrition Surveillance System High Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			'ear Data (20	
County		eight-for-He			/eight-for-He	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Kingsbury	47	*	*	148	9.5%	4.2%
De Smet	47			148	9.5%	4.2%
Lake	205	9.3%	3.5%	590	10.8%	2.2%
Madison	205	9.3%	3.5%	590	10.8%	2.2%
Lawrence	446	7.6%	2.1%	1,281	8.9%	1.4%
Deadwood	147	4.8%	3.0%	415	7.5%	2.2%
Spearfish	299	9.0%	2.9%	866	9.6%	1.7%
Lincoln	133	13.5%	5.2%	378	14.0%	3.2%
Canton	133	13.5%	5.2%	378	14.0%	3.2%
Lyman	241	19.1%	4.6%	691	18.1%	2.7%
Kennebec	44	*	*	122	13.1%	5.4%
Lower Brule	197	20.3%	5.3%	569	19.2%	3.0%
Marshall	51	*	*	162	11.1%	4.3%
Britton	51	*	*	162	11.1%	4.3%
McCook	110	12.7%	5.6%	327	11.6%	3.1%
Salem	110	12.7%	5.6%	327	11.6%	3.1%
McPherson	45	*	*	131	13.0%	5.2%
Eureka	22	*	*	75	*	*
Leola	23	*	*	56	*	*
Meade	399	10.8%	2.7%	1,165	8.9%	1.4%
Faith	53	*	*	147	11.6%	4.6%
Sturgis	346	10.1%	2.8%	1,018	8.5%	1.5%
Miner	44	*	*	124	5.6%	3.5%
Howard	44	*	*	124	5.6%	3.5%
Minnehaha	3,500	12.9%	1.0%	9,819	12.4%	0.6%
Sioux Falls - Downtown	211	15.2%	4.4%	2,663	12.4%	1.1%
Sioux Falls - Eastside	1,611	12.6%	1.5%	3,471	12.1%	1.0%
Sioux Falls - Westside	1,678	12.9%	1.4%	3,685	12.6%	1.0%
Moody	146	16.4%	5.5%	386	16.6%	3.4%
Flandreau	146	16.4%	5.5%	386	16.6%	3.4%
Pennington	3,816	10.4%	0.9%	10,925	9.7%	0.5%
Ellsworth	525	5.9%	1.7%	1,582	5.4%	1.0%
Hill City	66	*	*	174	8.0%	3.5%
Rapid City	3,191	11.2%	1.0%	9,047	10.5%	0.6%
Wall	34	*	*	122	13.1%	5.4%
Perkins	110	6.4%	4.0%	342	12.9%	3.2%
Bison	32	*	*	105	9.5%	4.9%
Lemmon	78	*	*	237	14.3%	4.0%

⁽⁵⁾ High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 11 (Continued)

Pediatric Nutrition Surveillance System High Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

County	High W	2003 Data /eight-for-He	eight (5)		ear Data (20 /eight-for-He	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Potter	57	*	*	165	12.7%	4.6%
Hoven	57	*	*	165	12.7%	4.6%
Roberts	435	14.9%	3.0%	1,316	13.4%	1.7%
Sisseton	435	14.9%	3.0%	1,316	13.4%	1.7%
Sanborn	48	*	*	151	14.6%	5.1%
Woonsocket	48	*	*	151	14.6%	5.1%
Shannon	1,294	14.9%	1.8%	3,783	15.6%	1.1%
Kyle	340	23.5%	4.3%	1,057	21.8%	2.4%
Manderson	92	*	*	266	10.2%	3.2%
Pine Ridge	732	11.9%	2.1%	2,037	12.7%	1.3%
Porcupine	130	10.8%	4.7%	423	18.0%	3.4%
Spink	133	11.3%	4.8%	397	10.6%	2.7%
Redfield	133	11.3%	4.8%	397	10.6%	2.7%
Stanley	114	18.4%	6.6%	261	16.9%	4.2%
Ft. Pierre	114	18.4%	6.6%	261	16.9%	4.2%
Sully	19	*	*	47	*	*
Onida	19	*	*	47	*	*
Tripp	165	15.8%	5.1%	476	19.1%	3.3%
Winner	165	15.8%	5.1%	476	19.1%	3.3%
Turner	99	*	*	297	9.8%	3.0%
Parker	36	*	*	108	5.6%	3.7%
Viborg	63	*	*	189	12.2%	4.2%
Union	139	18.7%	6.0%	432	13.2%	2.9%
Elk Point	139	18.7%	6.0%	432	13.2%	2.9%
Walworth	180	13.3%	4.5%	550	14.5%	2.7%
Mobridge	160	13.8%	4.8%	509	14.7%	2.8%
Selby	20	*	*	41	*	*
Yankton	504	17.3%	3.0%	1,439	14.9%	1.7%
Yankton	504	17.3%	3.0%	1,439	14.9%	1.7%
Ziebach	43	*	*	148	14.2%	5.1%
Dupree	43	*	*	148	14.2%	5.1%
Statewide PedNSS	19,578	12.7%	0.4%	56,668	12.5%	0.2%
National 2002	,	13.5%		,		

⁽⁵⁾ High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 12 (Continued)

Pediatric Nutrition Surveillance System High Weight-for-Height Reporting Period 01/01/2003 to 12/31/2003

Region**	High W	2003 Data High Weight-for-Height (5)			Three Year Data (2001-2003) High Weight-for-Height (5)		
	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records	1	Interval	
Aberdeen Area	973	12.3%	1.8%	2,870	11.8%	1.1%	
East Central	824	9.8%	1.8%	2,372	10.6%	1.1%	
Huron-Redfield	578	10.6%	2.2%	1,721	10.5%	1.3%	
Mitchell-Chamberlain	845	11.4%	1.9%	2,399	11.8%	1.2%	
Northern Black Hills	845	9.1%	1.7%	2,446	8.9%	1.0%	
Northeast Area	1,427	13.8%	1.6%	4,256	12.9%	0.9%	
North Central	333	11.4%	3.0%	1,018	13.7%	1.9%	
Northwest Area	525	10.7%	2.3%	1,632	12.1%	1.4%	
Oahe Area	733	17.3%	2.5%	1,970	15.5%	1.5%	
Pickstown Area	929	13.7%	2.0%	2,726	14.7%	1.2%	
Pine Ridge Area	1,705	16.3%	1.6%	5,004	17.8%	1.0%	
Rapid City Area	3,816	10.4%	0.9%	10,925	9.7%	0.5%	
Southeast Area	931	14.9%	2.1%	2,773	13.2%	1.1%	
Sioux Falls Area	3,500	12.9%	1.0%	9,819	12.4%	0.6%	
Sioux Empire Area	591	11.2%	2.3%	1,716	11.1%	1.3%	
South Central	735	17.7%	2.6%	2,128	18.2%	1.5%	
Southern Black Hills	288	12.5%	3.4%	893	12.4%	1.9%	
Statewide PedNSS	19,578	12.7%	0.4%	56,668	12.5%	0.2%	
National 2002		13.5%					

⁽⁵⁾ High Weight-For-Height: greater than or equal to 95th percentile based on 2000 CDC growth chart percentiles for weight-for-length for children under 2 years of age and BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Overweight and At Risk of Overweight (2 to 5 years of age)

The criteria for defining overweight infants and children up to 2 years of age is a weight-for-height value above the 95th percentile in the CDC's reference population of children matched for age, height, and sex. Children 2 years and older whose BMI-for-age is at or above the 95th percentile are defined as overweight. Obesity is defined as an excessive deposit of adipose tissue. A measure of weight-for-height above the 95th percentile does not measure fat tissue; it indicates but does not define obesity. Children 2 years and older whose BMI-for-age is between the 85th but below the 95th percentile are defined as "At risk of overweight".

Obesity is a risk factor for the following conditions in adulthood: cardiovascular disease, hypertension, diabetes, degenerative joint disease, and psychological problems. Studies show that 26 percent of overweight children (BMI above 95th percentile) 1-3 years will be obese at age 25 and 52 percent of overweight children 3 to 6 years will be obese at age 25. Whitaker et al. NEJM:1997;337:869-873.

South Dakota PedNSS Prevalence of Overweight and at Risk of Overweight* Among Children Aged 2 to <5 Years, by Race 25 ■ Overweight ■ Risk of overweight 20 15 10 5 0 US White Black American Asian SD Indian

Figure 12

* Overweight: > 95th percentile weight-for-length or BMI-for-age; at risk of overweight: > 85th-<95th percentile weight-for-length or BMI-for-age, CDC Growth Charts, 2000. 15% of children are expected to fall above the 85th percentile (5% above the 95th percentile and 10% between the 85th and 95th percentiles).

There are no Healthy People 2010 goals for overweight preschool children. The Healthy People 2010 target for the reduction of overweight or obese children age 6 to 11 is 5 percent. The 2003 rate of overweight, ages 2 to 5 years, in South Dakota's PedNSS records was 13.6 percent, up from 12.8 percent in 2002. The South Dakota PedNSS population rate for overweight children was 12.9 percent for the three-year period 2001-2003. The United States PedNSS population rate for overweight children was 14.3 percent in calendar year 2002.

The percent prevalence of overweight (greater than or equal to 95th percentile) and at risk of overweight (85th to 95th percentile) children by race/ethnicity and age are as follows:

Race/Ethnicity	At Risk of Overweight	Overweight
	(85th to 95th	(≥95th percentile)
	percentile)	
White	16.5	11.2
Black	14.0	15.9
American Indian/Alaska Native	21.0	19.1
Age		
2 years	18.1	13.5
3 years	18.2	13.6
4 years	16.7	13.6

Table 13 **Pediatric Nutrition Surveillance System** At Risk of Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

		2003 Data		Three Y	ear Data (20	01-2003)
County	At Ris	k of Overwe		At Ris	k of Overwe	
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aurora	38	*	*	106	20.8%	7.3%
Plankinton	38	*	*	106	20.8%	7.3%
Beadle	189	21.2%	5.5%	557	15.3%	2.7%
Huron	189	21.2%	5.5%	557	15.3%	2.7%
Bennett	85	*	*	259	21.2%	4.7%
Martin	85	*	*	259	21.2%	4.7%
Bon Homme	82	*	*	230	17.0%	4.5%
Tyndall	82	*	*	230	17.0%	4.5%
Brookings	189	12.7%	4.3%	593	10.5%	2.2%
Brookings	189	12.7%	4.3%	593	10.5%	2.2%
Brown	322	14.9%	3.5%	935	16.9%	2.2%
Aberdeen	322	14.9%	3.5%	935	16.9%	2.2%
Brule	64	*	*	196	22.4%	5.6%
Chamberlain	51	*	*	158	23.4%	6.3%
Kimball	13	*	*	38	*	*
Buffalo	112	25.9%	7.9%	320	23.4%	4.4%
Ft. Thompson	112	25.9%	7.9%	320	23.4%	4.4%
Butte	145	15.9%	5.4%	431	16.0%	3.2%
Belle Fourche	121	16.5% *	6.1%	357	16.8%	3.6%
Newell	24			74	12.0%	6.6%
Charles Mix	229	17.9%	4.6%	717	19.9%	2.7%
Lake Andes	62	*	*	207	16.4% *	4.6%
Platte	27			78		
Wagner	140	19.3%	6.1%	432	21.8%	3.7%
Clark	34	*	*	120	25.0%	7.5%
Clark	34			120	25.0%	7.5%
Clay Vermillion	128	14.8%	5.6%	417	18.9%	3.5%
	128 300	14.8% 17.3%	5.6% 4.0%	417 922	18.9% 17.6%	3.5% 2.3%
Codington Watertown	300	17.3% 17.3%	4.0%	922	17.6%	2.3%
	9	17.370	4.0%	26	17.070	2.370
Corson McLaughlin	9	*	*	2 6 26	*	*
Custer	53	*	*	159	23.3%	6.3%
Custer	53 53	*	*	159	23.3%	6.3%
	188	23.9%	5.9%	540	20.2%	3.2%
Davison Mitchell	188	23.9% 23.9%	5.9% 5.9%	540 540	20.2%	3.2%
Day	83	23.970	3.970	271	11.8%	3.4%
Webster	83	*	*	271	11.8%	3.4%
Deuel	30	*	*	84	*	3.470
Clear Lake	30	*	*	84	*	*
Oldai Land	50			U-T		

⁽⁶⁾ At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of

reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System At Risk of Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

O maret a	A4 D:-	2003 Data	11-4 (O)		ear Data (20	
County		k of Overwe			k of Overwe	
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	32	*	*	101	15.8%	6.5%
Isabel	8	*	*	30	*	*
Timber Lake	24	*	*	71	*	*
Douglas	41	*	*	101	15.8%	6.5%
Armour	41	*	*	101	15.8%	6.5%
Edmunds	32	*	*	98	*	*
Bowdle	24	*	*	71	*	*
Ipswich	8	*	*	27	*	*
Fall River	86	*	*	289	18.3%	4.1%
Hot Springs	86	*	*	289	18.3%	4.1%
Faulk	19	*	*	64	*	*
Faulkton	19	*	*	64	*	*
Grant	76	*	*	237	21.5%	5.0%
Milbank	76	*	*	237	21.5%	5.0%
Gregory	52	*	*	151	22.5%	6.3%
Bonesteel	12	*	*	42	*	*
Burke	40	*	*	109	19.3%	6.9%
Haakon	24	*	*	78	*	*
Philip	24	*	*	78	*	*
Hamlin	78	*	*	230	16.1%	4.4%
Hayti	78	*	*	230	16.1%	4.4%
Hand	42	*	*	144	9.0%	4.1%
Miller	42	*	*	144	9.0%	4.1%
Hanson	43	*	*	113	14.2%	5.8%
Alexandria	43	*	*	113	14.2%	5.8%
Harding	6	*	*	18	*	*
Buffalo	6	*	*	18	*	*
Hughes	170	27.6%	6.6%	501	25.5%	3.7%
Pierre	170	27.6%	6.6%	501	25.5%	3.7%
Hutchinson	50	*	*	149	18.1%	5.7%
Freeman	21	*	*	55	*	*
Parkston	29	*	*	94	*	*
Hyde	30	*	*	69	*	*
Highmore	30	*	*	69	*	*
Jackson	103	19.4%	7.1%	317	18.6%	4.0%
Kadoka	26	*	*	95	*	*
Wanblee	77	*	*	222	19.8%	4.9%
Jerauld	15	*	*	37	*	*
Wessington Springs	15	*	*	37	*	*
Jones	24	*	*	86	*	*
Murdo	24	*	*	86	*	*

⁽⁶⁾ At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System At Risk of Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

	A4 D:	2003 Data	(0)		Three Year Data (2001-2003) At Risk of Overweight (6) Total Percent Confidence Interval 70 * * 70 * * 258 20.2% 4.6% 258 20.2% 4.6%			
County		k of Overwe						
Clinic	Total	Percent	Confidence		Percent			
12:	Records	*	Interval *		de	intervai		
Kingsbury	24	*	*			*		
De Smet	24	*	*					
Lake	87	*	*					
Madison	87							
Lawrence	177	14.1%	4.6%	510	8.4%	2.1%		
Deadwood	62	*	"	160	8.8%	3.9%		
Spearfish	115	15.7%	6.1%	350	8.3%	2.5%		
Lincoln	57	*	*	176	17.0%	5.1%		
Canton	57	*	*	176	17.0%	5.1%		
Lyman	127	14.2%	5.5%	370	16.8%	3.5%		
Kennebec	27	*	*	73	*	*		
Lower Brule	100	16.0%	6.6%	297	17.2%	4.0%		
Marshall	28	*	*	91	*	*		
Britton	28	*	*	91	*	*		
McCook	52	*	*	174	19.0%	5.4%		
Salem	52	*	*	174	19.0%	5.4%		
McPherson	21	*	*	71	*	*		
Eureka	10	*	*	39	*	*		
Leola	11	*	*	32	*	*		
Meade	181	20.4%	5.5%	552	17.0%	2.9%		
Faith	28	*	*	80	*	*		
Sturgis	153	17.0%	5.5%	472	16.3%	3.1%		
Miner	23	*	*	55	*	*		
Howard	23	*	*	55	*	*		
Minnehaha	1,354	19.6%	2.0%	3,845	18.2%	1.1%		
Sioux Falls - Downtown	93	*	*	1,056	17.6%	2.1%		
Sioux Falls - Eastside	629	18.0%	2.8%	1,372	17.6%	1.9%		
Sioux Falls - Westside	632	21.0%	3.0%	1,417	19.1%	1.9%		
Moody	65	*	*	153	19.0%	5.8%		
Flandreau	65	*	*	153	19.0%	5.8%		
Pennington	1,565	16.2%	1.7%	4,715	16.5%	1.0%		
Ellsworth	209	7.2%	3.1%	648	11.3%	2.2%		
Hill City	32	*	*	96	*	*		
Rapid City	1,306	17.9%	1.9%	3,913	17.5%	1.1%		
Wall	18	*	*	58	*	*		
Perkins	55	*	*	191	14.7%	4.6%		
Bison	18	*	*	63	*	*		
Lemmon	37	*	*	128	11.7%	5.0%		

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 13 (Continued)

Pediatric Nutrition Surveillance System At Risk of Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

County	At Ris	2003 Data k of Overwe	iaht (6)	Three Year Data (2001-2003) At Risk of Overweight (6)		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records	1 0100110	Interval
Potter	31	*	*	81	*	*
Hoven	31	*	*	81	*	*
Roberts	189	15.9%	4.8%	617	17.3%	2.8%
Sisseton	189	15.9%	4.8%	617	17.3%	2.8%
Sanborn	19	*	*	56	*	*
Woonsocket	19	*	*	56	*	*
Shannon	559	15.9%	2.8%	1,715	13.6%	1.5%
Kyle	155	20.6%	6.0%	503	22.5%	3.5%
Manderson	34	*	*	106	3.8%	3.1%
Pine Ridge	313	16.0%	3.7%	896	11.0%	1.8%
Porcupine	57	*	*	210	8.1%	3.2%
Spink	50	*	*	177	18.6%	5.3%
Redfield	50	*	*	177	18.6%	5.3%
Stanley	56	*	*	129	14.7%	5.6%
Ft. Pierre	56	*	*	129	14.7%	5.6%
Sully	9	*	*	25	*	*
Onida	9	*	*	25	*	*
Tripp	85	*	*	231	15.2%	4.2%
Winner	85	*	*	231	15.2%	4.2%
Turner	42	*	*	123	20.3%	6.7%
Parker	17	*	*	44	*	*
Viborg	25	*	*	79	*	*
Union	48	*	*	158	15.2%	5.1%
Elk Point	48	*	*	158	15.2%	5.1%
Walworth	89	*	*	269	20.8%	4.6%
Mobridge	82	*	*	251	21.9%	4.9%
Selby	7	*	*	18	*	*
Yankton	204	18.1%	4.9%	606	16.3%	2.7%
Yankton	204	18.1%	4.9%	606	16.3%	2.7%
Ziebach	23	*	*	77	*	*
Dupree	23	*	*	77	*	*
Statewide PedNSS	8,423	17.7%	0.8%	25,161	17.1%	0.4%
National 2002		15.4%				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(6) At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 14 **Pediatric Nutrition Surveillance System** At Risk of Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

Region**		2003 Data k of Overwe	ight (6)	Three Year Data (2001-2003) At Risk of Overweight (6)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	433	14.1%	3.0%	1,297	15.6%	1.8%
East Central	356	15.7%	3.5%	1,046	13.4%	1.9%
Huron-Redfield	239	19.2%	4.7%	734	16.1%	2.4%
Mitchell-Chamberlain	367	21.3%	4.0%	1,048	20.1%	2.3%
Northern Black Hills	358	17.3%	3.6%	1,062	12.9%	1.8%
Northeast Area	629	16.7%	2.7%	1,980	18.5%	1.6%
North Central	170	18.8%	5.5%	528	16.7%	2.9%
Northwest Area	261	15.7%	4.0%	818	15.6%	2.3%
Oahe Area	338	22.8%	4.3%	949	20.0%	2.4%
Pickstown Area	454	19.4%	3.4%	1,348	19.2%	2.0%
Pine Ridge Area	747	16.9%	2.5%	2,291	15.1%	1.3%
Rapid City Area	1,565	16.2%	1.7%	4,715	16.5%	1.0%
Southeast Area	380	16.6%	3.4%	1,181	17.1%	2.0%
Sioux Falls Area	1,354	19.6%	2.0%	3,845	18.2%	1.1%
Sioux Empire Area	261	19.2%	4.5%	786	18.6%	2.5%
South Central	372	17.5%	3.6%	1,085	19.0%	2.2%
Southern Black Hills	139	15.8%	5.5%	448	20.1%	3.5%
Statewide PedNSS	8,423	17.7%	0.8%	25,161	17.1%	0.4%
National 2002		15.4%				

⁽⁶⁾ At Risk of Overweight: 85th to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Table 15 **Pediatric Nutrition Surveillance System** Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data	7)	Three Year Data (2001-2003) Overweight (7)			
County	Total	overweight (Confidence	Total		Confidence	
Clinic	Records	Percent	Interval	Records	Percent	Interval	
Aurora	38	*	*	106	16.0%	6.4%	
Plankinton	38	*	*	106	16.0%	6.4%	
Beadle	189	7.4%	3.3%	557	10.4%	2.2%	
Huron	189	7.4%	3.3%	557	10.4%	2.2%	
Bennett	85	*	*	259	21.2%	4.7%	
Martin	85	*	*	259	21.2%	4.7%	
Bon Homme	82	*	*	230	10.0%	3.4%	
Tyndall	82	*	*	230	10.0%	3.4%	
Brookings	189	7.4%	3.3%	593	9.6%	2.1%	
Brookings	189	7.4%	3.3%	593	9.6%	2.1%	
Brown	322	12.4%	3.2%	935	12.4%	1.9%	
Aberdeen	322	12.4%	3.2%	935	12.4%	1.9%	
Brule	64	*	*	196	10.2%	3.8%	
Chamberlain	51	*	*	158	10.1%	4.2%	
Kimball	13	*	*	38	*	*	
Buffalo	112	24.1%	7.6%	320	17.8%	3.9%	
Ft. Thompson	112	24.1%	7.6%	320	17.8%	3.9%	
Butte	145	10.3%	4.4%	431	11.4%	2.7%	
Belle Fourche	121	12.4%	5.3%	357	12.9%	3.1%	
Newell	24	*	*	74	6.0%	4.7%	
Charles Mix	229	16.2%	4.4%	717	17.6%	2.6%	
Lake Andes	62	*	*	207	16.4%	4.6%	
Platte	27			78			
Wagner	140	21.4%	6.4%	432	19.9%	3.5%	
Clark	34	*	*	120 120	8.3%	4.3%	
Clark	34		5.3%	417	8.3%	4.3% 3.0%	
Clay Vermillion	128 128	13.3% 13.3%	5.3% 5.3%	4 17 417	13.7% 13.7%	3.0%	
Codington	300	16.3%	3.8%	922	16.1%	2.2%	
Watertown	300	16.3%	3.8%	922	16.1%	2.2%	
Corson	9	*	3.070	26	*	*	
McLaughlin	9	*	*	26	*	*	
Custer	53	*	*	159	4.4%	2.7%	
Custer	53	*	*	159	4.4%	2.7%	
Davison	188	13.3%	4.4%	540	12.4%	2.5%	
Mitchell	188	13.3%	4.4%	540	12.4%	2.5%	
Day	83	*	*	271	7.4%	2.7%	
Webster	83	*	*	271	7.4%	2.7%	
Deuel	30	*	*	84	*	*	
Clear Lake	30	*	*	84	*	*	

 ⁽⁷⁾ Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of

reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data Overweight (7	7)		ear Data (20 Overweight (
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	32	*	*	101	11.9%	5.6%
Isabel	8	*	*	30	*	*
Timber Lake	24	*	*	71	*	*
Douglas	41	*	*	101	12.9%	5.9%
Armour	41	*	*	101	12.9%	5.9%
Edmunds	32	*	*	98	*	*
Bowdle	24	*	*	71	*	*
Ipswich	8	*	*	27	*	*
Fall River	86	*	*	289	15.9%	3.9%
Hot Springs	86	*	*	289	15.9%	3.9%
Faulk	19	*	*	64	*	*
Faulkton	19	*	*	64	*	*
Grant	76	*	*	237	16.9%	4.4%
Milbank	76	*	*	237	16.9%	4.4%
Gregory	52	*	*	151	11.3%	4.5%
Bonesteel	12	*	*	42	*	*
Burke	40	*	*	109	7.3%	4.3%
Haakon	24	*	*	78	*	*
Philip	24	*	*	78	*	*
Hamlin	78	*	*	230	7.8%	3.0%
Hayti	78	*	*	230	7.8%	3.0%
Hand	42	*	*	144	4.9%	3.0%
Miller	42	*	*	144	4.9%	3.0%
Hanson	43	*	*	113	8.0%	4.4%
Alexandria	43	*	*	113	8.0%	4.4%
Harding	6	*	*	18	*	*
Buffalo	6	*	*	18	*	*
Hughes	170	18.2%	5.4%	501	15.6%	2.9%
Pierre	170	18.2%	5.4%	501	15.6%	2.9%
Hutchinson	50	*	*	149	5.4%	3.1%
Freeman	21	*	*	55	*	*
Parkston	29	*	*	94	*	*
Hyde	30	*	*	69	*	*
Highmore	30	*	*	69	*	*
Jackson	103	24.3%	8.0%	317	30.0%	5.1%
Kadoka	26	*	*	95	*	*
Wanblee	77	*	*	222	31.1%	6.2%
Jerauld	15	*	*	37	*	*
Wessington Springs	15	*	*	37	*	*
Jones	24	*	*	86	*	*
Murdo	24	*	*	86	*	*

⁽⁷⁾ Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

County	C	2003 Data Overweight (7)		ear Data (20 Overweight (
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Kingsbury	24	*	*	70	*	*
De Smet	24	*	*	70	*	*
Lake	87	*	*	258	12.8%	3.7%
Madison	87	*	*	258	12.8%	3.7%
Lawrence	177	4.5%	2.6%	510	5.9%	1.8%
Deadwood	62	*	*	160	8.1%	3.7%
Spearfish	115	5.2%	3.5%	350	4.9%	1.9%
Lincoln	57	*	*	176	16.5%	5.0%
Canton	57	*	*	176	16.5%	5.0%
Lyman	127	12.6%	5.2%	370	13.8%	3.2%
Kennebec	27	*	*	73	*	*
Lower Brule	100	14.0%	6.2%	297	15.5%	3.8%
Marshall	28	*	*	91	*	*
Britton	28	*	*	91	*	*
McCook	52	*	*	174	12.6%	4.4%
Salem	52	*	*	174	12.6%	4.4%
McPherson	21	*	*	71	*	*
Eureka	10	*	*	39	*	*
Leola	11	*	*	32	*	*
Meade	181	11.6%	4.2%	552	9.6%	2.2%
Faith	28	*	*	80	*	*
Sturgis	153	11.1%	4.4%	472	9.3%	2.3%
Miner	23	*	*	55	*	*
Howard	23	*	*	55	*	*
Minnehaha	1,354	15.4%	1.8%	3,845	14.4%	1.0%
Sioux Falls - Downtown	93	*	*	1,056	15.7%	2.0%
Sioux Falls - Eastside	629	14.5%	2.5%	1,372	13.6%	1.6%
Sioux Falls - Westside	632	15.7%	2.6%	1,417	14.3%	1.7%
Moody	65	*	*	153	13.1%	4.8%
Flandreau	65	*	*	153	13.1%	4.8%
Pennington	1,565	12.0%	1.4%	4,715	10.9%	0.8%
Ellsworth	209	7.7%	3.2%	648	6.8%	1.7%
Hill City	32	*	*	96	*	*
Rapid City	1,306	13.0%	1.6%	3,913	11.7%	0.9%
Wall	18	*	*	58	*	*
Perkins	55	*	*	191	11.5%	4.0%
Bison	18	*	*	63	*	*
Lemmon	37	*	*	128	13.3%	5.3%

⁽⁷⁾ Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 15 (Continued)

Pediatric Nutrition Surveillance System Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data Overweight (7)	Three Year Data (2001-2003) Overweight (7)		
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Potter	31	*	*	81	*	*
Hoven	31	*	*	81	*	*
Roberts	189	20.1%	5.4%	617	16.2%	2.7%
Sisseton	189	20.1%	5.4%	617	16.2%	2.7%
Sanborn	19	*	*	56	*	*
Woonsocket	19	*	*	56	*	*
Shannon	559	13.1%	2.5%	1,715	12.2%	1.4%
Kyle	155	30.3%	7.3%	503	25.2%	3.7%
Manderson	34	*	*	106	1.9%	2.2%
Pine Ridge	313	7.0%	2.5%	896	5.9%	1.3%
Porcupine	57	*	*	210	12.9%	4.1%
Spink	50	*	*	177	10.7%	4.0%
Redfield	50	*	*	177	10.7%	4.0%
Stanley	56	*	*	129	14.7%	5.6%
Ft. Pierre	56	*	*	129	14.7%	5.6%
Sully	9	*	*	25	*	*
Onida	9	*	*	25	*	*
Tripp	85	*	*	231	18.6%	4.7%
Winner	85	*	*	231	18.6%	4.7%
Turner	42	*	*	123	12.2%	5.2%
Parker	17	*	*	44	*	*
Viborg	25	*	*	79	*	*
Union	48	*	*	158	16.5%	5.3%
Elk Point	48	*	*	158	16.5%	5.3%
Walworth	89	*	*	269	14.5%	3.8%
Mobridge	82	*	*	251	15.5%	4.1%
Selby	7	*	*	18	*	*
Yankton	204	20.1%	5.2%	606	15.8%	2.7%
Yankton	204	20.1%	5.2%	606	15.8%	2.7%
Ziebach	23	*	*	77	*	*
Dupree	23	*	*	77	*	*
Statewide PedNSS	8,423	13.6%	0.7%	25,161	12.9%	0.4%
National 2002		14.3%				

⁽⁷⁾ Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 16 **Pediatric Nutrition Surveillance System** Overweight - Ages 2 to 5 Years Reporting Period 01/01/2003 to 12/31/2003

Region**		2003 Data Overweight (Three Year Data (2001-2003) Overweight (7)		
	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Aberdeen Area	433	12.2%	2.8%	1,297	11.0%	1.5%
East Central	356	9.0%	2.6%	1,046	9.6%	1.6%
Huron-Redfield	239	8.4%	3.1%	734	10.5%	2.0%
Mitchell-Chamberlain	367	13.1%	3.1%	1,048	12.2%	1.8%
Northern Black Hills	358	8.1%	2.5%	1,062	7.8%	1.4%
Northeast Area	629	16.7%	2.7%	1,980	15.4%	1.5%
North Central	170	11.2%	4.2%	528	12.5%	2.5%
Northwest Area	261	10.3%	3.3%	818	11.5%	2.0%
Oahe Area	338	15.7%	3.5%	949	14.0%	2.0%
Pickstown Area	454	13.7%	2.9%	1,348	13.9%	1.7%
Pine Ridge Area	747	15.8%	2.4%	2,291	15.7%	1.4%
Rapid City Area	1,565	12.0%	1.4%	4,715	10.9%	0.8%
Southeast Area	380	17.4%	3.5%	1,181	15.2%	1.9%
Sioux Falls Area	1,354	15.4%	1.8%	3,845	14.4%	1.0%
Sioux Empire Area	261	13.8%	3.8%	786	13.0%	2.1%
South Central	372	16.1%	3.4%	1,085	15.4%	2.0%
Southern Black Hills	139	12.2%	4.9%	448	11.8%	2.7%
Statewide PedNSS	8,423	13.6%	0.7%	25,161	12.9%	0.4%
National 2002		14.3%				

⁽⁷⁾ Overweight: greater than or equal to 95th percentile based on BMI-for-age for children 2 years of age and older; excludes records with biologically implausible values for height, age, and weight.

** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

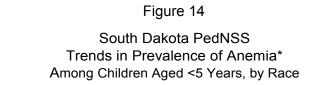
Anemia

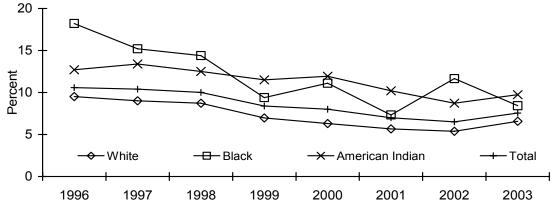
Anemia is defined as having low hemoglobin (Hb) concentrations or hematocrit (Hct) values when measuring a healthy reference population of the same age. The PedNSS uses a hemoglobin and/or hematocrit value below the 5th percentile of the third National Health and Nutrition Examination Survey (NHANES III) reference population.

The percent prevalence in South Dakota's PedNSS population with anemia was 7.6 percent in 2003, up from 6.5 percent in 2001. The percent of the South Dakota PedNSS population with anemia was 7.0 percent over the three-year period 2001-2003. The United States PedNSS population had an anemia rate of 13.1 percent in calendar year 2002.

Figure 13 South Dakota PedNSS Prevalence of Anemia* Among Children Aged <5 Years, by Race 20 ■ South Dakota ■ Nation 15 10 5 0 White Total Black American Asian Indian

* Hb or Hct < 5th percentile, CDC MMWR vol. 47 (No. RR-3), 1998.





^{*} Hb or Hct < 5th percentile, CDC MMWR vol. 47 (No. RR-3), 1998.

The Healthy People 2010 target for reducing iron deficiency among children ages 1-2 is 5 percent. The Healthy People 2010 target for reducing iron deficiency among children ages 3-4 is 1 percent.

The percent prevalence of children with anemia by race in South Dakota's 2003 PedNSS population was 6.6 percent for whites, 8.4 percent for blacks, 9.8 percent for American Indians or Alaskan Natives, and 14.4 percent for Asian or Pacific Islanders. The age breakdown for this population was: less than 12 months, 10.3 percent; 12 through 17 months, 8.4 percent; 18 through 23 months, 8.0 percent; 24 through 35 months, 7.5 percent; and 36 through 59 months, 5.1. When converted to whole years the age breakdown for this population was: less than one year, 10.3 percent, 1 through 2 years 7.9 percent, and 3 through 4 years of age, 5.1 percent

Table 17

Pediatric Nutrition Surveillance System
Anemia

Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data Anemia (8)		Three Y	ear Data (20 Anemia (8)	01-2003)
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
Simile .	Records	rercent	Interval	Records	i ercent	Interval
Aurora	57	*	*	166	6.6%	3.3%
Plankinton	57 57	*	*	166	6.6%	3.3%
Beadle	344	2.5%	1.4%	968	3.6%	1.0%
Huron	344	2.5%	1.4%	968	3.6%	1.0%
Bennett	154	14.9%	5.1%	470	17.0%	3.1%
Martin	154	14.9%	5.1%	470	17.0%	3.1%
Bon Homme	129	2.3%	2.2%	338	4.7%	1.9%
Tyndall	129	2.3%	2.2%	338	4.7%	1.9%
Brookings	314	6.4%	2.3%	989	3.9%	1.0%
Brookings	314	6.4%	2.3%	989	3.9%	1.0%
Brown	537	8.0%	2.0%	1,576	5.4%	1.0%
Aberdeen	537	8.0%	2.0%	1,576	5.4%	1.0%
Brule	93	*	*	279	3.6%	1.9%
Chamberlain	77	*	*	241	4.1%	2.1%
Kimball	16	*	*	38	*	*
Buffalo	174	3.4%	2.3%	479	4.4%	1.6%
Ft. Thompson	174	3.4%	2.3%	479	4.4%	1.6%
Butte	214	9.8%	3.5%	664	6.8%	1.7%
Belle Fourche	181	9.4%	3.7%	556	7.0%	1.8%
Newell	33	*	*	108	5.6%	3.7%
Charles Mix	349	9.5%	2.7%	1,072	9.8%	1.6%
Lake Andes	92	*	*	303	8.3%	2.7%
Platte	42	*	*	113	11.5%	5.2%
Wagner	215	9.3%	3.4%	656	10.2%	2.1%
Clark	55	*	*	180	4.4%	2.6%
Clark	55	*	*	180	4.4%	2.6%
Clay	208	6.7%	3.0%	674	5.6%	1.5%
Vermillion	208	6.7%	3.0%	674	5.6%	1.5%
Codington	489	6.3%	1.9%	1,466	5.0%	1.0%
Watertown	489	6.3%	1.9%	1,466	5.0%	1.0%
Corson	12	*	*	38	*	*
McLaughlin	12	*	*	38	*	*
Custer	71	*	*	223	4.9%	2.4%
Custer	71	*	*	223	4.9%	2.4%
Davison	352	4.3%	1.8%	939	6.8%	1.4%
Mitchell	352	4.3%	1.8%	939	6.8%	1.4%
Day	128	3.1%	2.6%	396	2.5%	1.3%
Webster	128	3.1%	2.6%	396	2.5%	1.3%
Deuel	35	*	*	102	5.9%	4.0%
Clear Lake	35	*	*	102	5.9%	4.0%

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

55

⁽⁸⁾ Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey, children 6 months to 5 years of age included in the analysis.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System Anemia Reporting Period 01/01/2003 to 12/31/2003

County		2002 Data Anemia (8)			ear Data (20 Anemia (8)	00-2002)
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	49	*	*	154	1.3%	1.5%
Isabel	15	*	*	53	*	*
Timber Lake	34	*	*	101	2.0%	2.3%
Douglas	52	*	*	142	12.0%	4.8%
Armour	52	*	*	142	12.0%	4.8%
Edmunds	45	*	*	140	5.0%	3.1%
Bowdle	32	*	*	103	5.8%	3.9%
Ipswich	13	*	*	37	*	*
Fall River	139	15.1%	5.4%	442	12.4%	2.8%
Hot Springs	139	15.1%	5.4%	442	12.4%	2.8%
Faulk	34	*	*	97	*	*
Faulkton	34	*	*	97	*	*
Grant	138	6.5%	3.6%	395	4.6%	1.8%
Milbank	138	6.5%	3.6%	395	4.6%	1.8%
Gregory	82	*	*	240	4.6%	2.3%
Bonesteel	18	*	*	68	*	*
Burke	64	*	*	172	3.5%	2.3%
Haakon	38	*	*	114	2.6%	2.5%
Philip	38	*	*	114	2.6%	2.5%
Hamlin	123	17.1%	6.1%	331	16.9%	3.7%
Hayti	123	17.1%	6.1%	331	16.9%	3.7%
Hand	56	*	*	190	6.3%	3.0%
Miller	56	*	*	190	6.3%	3.0%
Hanson	64	*	*	179	7.3%	3.3%
Alexandria	64	*	*	179	7.3%	3.3%
Harding	9	*	*	28	*	*
Buffalo	9	*	*	28	*	*
Hughes	300	2.0%	1.3%	819	1.7%	0.7%
Pierre	300	2.0%	1.3%	819	1.7%	0.7%
Hutchinson	98	*	*	242	7.9%	3.0%
Freeman	45	*	*	90	*	*
Parkston	53	*	*	152	3.3%	2.4%
Hyde	36	*	*	92	*	*
Highmore	36	*	*	92	*	*
Jackson	179	23.5%	6.0%	531	21.8%	3.3%
Kadoka	41	*	*	137	11.7%	4.8%
Wanblee	138	26.1%	7.2%	394	25.4%	4.2%
Jerauld	25	*	*	60	*	*
Wessington Springs	25	*	*	60	*	*
Jones	36	*	*	131	9.2%	4.4%
Murdo	36	*	*	131	9.2%	4.4%

⁽⁸⁾ Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey, children 6 months to 5 years of age included in the analysis.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System Anemia Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data Anemia (8)		Three Year Data (2001-2003) Anemia (8)			
Clinic	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records		Interval	
Kingsbury	38	*	*	116	2.6%	2.5%	
De Smet	38	*	*	116	2.6%	2.5%	
Lake	145	8.3%	3.9%	434	5.5%	1.9%	
Madison	145	8.3%	3.9%	434	5.5%	1.9%	
Lawrence	325	4.6%	2.0%	931	2.9%	0.9%	
Deadwood	115	3.5%	2.9%	306	2.6%	1.5%	
Spearfish	210	5.2%	2.6%	625	3.0%	1.1%	
Lincoln	94	*	*	277	3.2%	1.8%	
Canton	94	*	*	277	3.2%	1.8%	
Lyman	184	1.1%	1.3%	535	2.2%	1.1%	
Kennebec	31	*	*	93	*	*	
Lower Brule	153	1.3%	1.5%	442	2.0%	1.1%	
Marshall	34	*	*	121	4.1%	3.0%	
Britton	34	*	*	121	4.1%	3.0%	
McCook	82	*	*	252	2.0%	1.5%	
Salem	82	*	*	252	2.0%	1.5%	
McPherson	32	*	*	107	4.7%	3.4%	
Eureka	18	*	*	62	*	*	
Leola	14	*	*	45	*	*	
Meade	291	5.5%	2.3%	872	5.6%	1.3%	
Faith	42	*	*	120	4.2%	3.1%	
Sturgis	249	5.2%	2.4%	752	5.9%	1.5%	
Miner	35	*	*	101	5.0%	3.7%	
Howard	35	*	*	101	5.0%	3.7%	
Minnehaha	2,330	7.7%	0.9%	6,721	6.9%	0.5%	
Sioux Falls - Downtown	130	2.3%	2.2%	1,829	5.1%	0.9%	
Sioux Falls - Eastside	1,083	7.3%	1.4%	2,381	6.9%	0.9%	
Sioux Falls - Westside	1,117	8.7%	1.5%	2,511	8.2%	0.9%	
Moody	111	19.8%	6.9%	289	22.5%	4.6%	
Flandreau	111	19.8%	6.9%	289	22.5%	4.6%	
Pennington	2,697	7.0%	0.8%	7,731	6.1%	0.5%	
Ellsworth	360	12.5%	3.1%	1,086	12.1%	1.7%	
Hill City	57	*	*	145	1.4%	1.6%	
Rapid City	2,255	6.3%	0.9%	6,409	5.2%	0.5%	
Wall	25	*	*	91	*	*	
Perkins	86	*	*	274	6.2%	2.5%	
Bison	26	*	*	83	*	*	
Lemmon	60	*	*	191	5.2%	2.7%	

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.
(8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey,

children 6 months to 5 years of age included in the analysis.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 17 (Continued)

Pediatric Nutrition Surveillance System Anemia Reporting Period 01/01/2003 to 12/31/2003

County		2003 Data Anemia (8)		Three Y	ear Data (20 Anemia (8)	01-2003)
_	Tatal		Confidence	Total		Confidence
Clinic	Total Records	Percent	Interval	Records	Percent	Confidence Interval
D-44-		*	intervai *		4.40/	
Potter	41	*	*	121	4.1%	3.0%
Hoven	41			121	4.1%	3.0%
Roberts	301	11.6%	3.2%	976	13.1%	1.9%
Sisseton	301	11.6%	3.2%	976	13.1%	1.9%
Sanborn	37	*	*	120	8.3%	4.3%
Woonsocket	37			120	8.3%	4.3%
Shannon	918	10.8%	1.8%	2,837	11.4%	1.0%
Kyle	228	3.1%	1.9%	751	6.1%	1.5%
Manderson	58	*	*	182	15.4%	4.8%
Pine Ridge	534	11.6%	2.4%	1,581	11.8%	1.4%
Porcupine	98	*	*	323	19.2%	4.0%
Spink	103	7.8%	4.5%	300	6.0%	2.3%
Redfield	103	7.8%	4.5%	300	6.0%	2.3%
Stanley	88	*	*	206	4.4%	2.4%
Ft. Pierre	88	*	*	206	4.4%	2.4%
Sully	12	*	*	33	*	*
Onida	12	*	*	33	*	*
Tripp	141	17.7%	5.8%	388	14.7%	3.2%
Winner	141	17.7%	5.8%	388	14.7%	3.2%
Turner	71	*	*	204	5.9%	2.8%
Parker	26	*	*	78	*	*
Viborg	45	*	*	126	4.0%	2.9%
Union	85	*	*	276	6.2%	2.5%
Elk Point	85	*	*	276	6.2%	2.5%
Walworth	132	3.0%	2.5%	402	4.7%	1.8%
Mobridge	116	2.6%	2.5%	371	4.9%	1.9%
Selby	16	*	*	31	*	*
Yankton	355	9.3%	2.7%	1,022	8.7%	1.5%
Yankton	355	9.3%	2.7%	1,022	8.7%	1.5%
Ziebach	32	*	*	115	1.7%	2.0%
Dupree	32	*	*	115	1.7%	2.0%
					111,70	
Statewide PedNSS	14,018	7.6%	0.4%	41,107	7.0%	0.2%
National 2002		13.1%				

Shaded rows indicate the three-year data are significantly higher than the state three-year data at the 0.05 level.

(8) Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey, children 6 months to 5 years of age included in the analysis.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 18 **Pediatric Nutrition Surveillance System** Anemia Reporting Period 01/01/2003 to 12/31/2003

Region**		2003 Data Anemia (8)		Three Year Data (2001-2003) Anemia (8)		
	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Aberdeen Area	699	7.0%	1.6%	2,093	4.8%	0.8%
East Central	586	10.9%	2.2%	1,725	9.4%	1.2%
Huron-Redfield	447	4.5%	1.7%	1,268	4.2%	0.9%
Mitchell-Chamberlain	628	5.3%	1.5%	1,743	6.2%	1.0%
Northern Black Hills	616	5.0%	1.5%	1,803	4.2%	0.8%
Northeast Area	1,018	7.9%	1.4%	3,119	7.5%	0.8%
North Central	255	5.1%	2.3%	784	6.8%	1.5%
Northwest Area	390	7.9%	2.3%	1,235	5.6%	1.1%
Oahe Area	533	3.0%	1.2%	1,461	2.8%	0.7%
Pickstown Area	710	7.2%	1.7%	2,034	8.3%	1.1%
Pine Ridge Area	1,251	13.1%	1.7%	3,838	13.5%	1.0%
Rapid City Area	2,697	7.0%	0.8%	7,731	6.1%	0.5%
Southeast Area	648	8.3%	1.9%	1,972	7.3%	1.0%
Sioux Falls Area	2,330	7.7%	0.9%	6,721	6.9%	0.5%
Sioux Empire Area	427	5.4%	1.8%	1,268	4.3%	1.0%
South Central	573	6.5%	1.8%	1,647	6.4%	1.0%
Southern Black Hills	210	11.4%	3.8%	665	9.9%	2.0%
Statewide PedNSS	14,018	7.6%	0.4%	41,107	7.0%	0.2%
National 2002		13.1%				

⁽⁸⁾ Anemia: Hemoglobin (Hb) concentrations or hematocrit (Hct) values less than 5th percentile of NHANES III survey, children 6 months to 5 years of age included in the analysis.

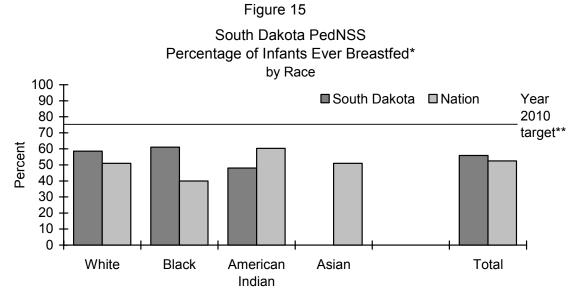
** Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Breastfeeding

Initiation

The Healthy People 2010 objective is to increase the proportion of mothers who breastfeed their babies in the early postpartum period to at least 75 percent, 50 percent at 6 months and at least 25 percent at one year.

The percent of the PedNSS population in the state in 2003 for children 2 years of age and under ever breastfed was 55.9 percent. This shows a decrease over the 2002 rate of 56.7 percent. The three-year rate for 2001 through 2003 PedNSS population was 55.4 percent. The United States rate for the PedNSS population that had ever breastfed was 52.5 percent in calendar year 2001.



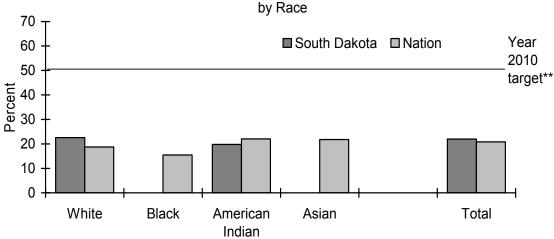
* Among infants born during the reporting period.

The South Dakota PedNSS populations by race in 2003 who ever breastfed was 58.6 percent for whites, 61.1 percent for blacks, and 48.0 percent for American Indian.

^{**} Increase the proportion of mothers who breastfeed their babies in the early postpartum period to 75%.

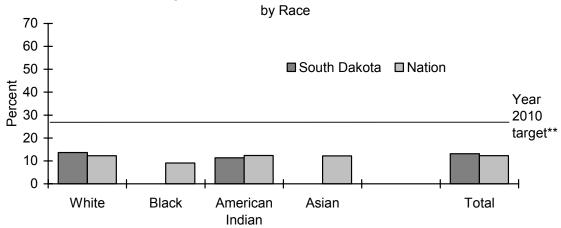
Six Months or More

Figure 16
South Dakota PedNSS
Percentage of Infants Breastfed at Least 6 Months*
by Race



- * Among infants who turned 6 months of age during the reporting period.
- ** Year 2010 target: increase the proportion of mothers who breastfeed their babies at 6 months to 50%.

Figure 17
South Dakota PedNSS
Percentage of Infants Breastfed at Least 12 Months*
by Race



- * Among infants who turned 12 months of age during the reporting period.
- ** Increase the proportion of mothers who breastfeed their babies at 1 year to 25%.

The percent of infants in the South Dakota PedNSS population that were breastfed at least 6 months in 2003 was 22.0 percent. This shows a decrease over the 2002 rate of 24.1 percent. The three-year rate for the 2001 through 2003 PedNSS population was 20.2. In the United States PedNSS population the percent of infants that were breastfed at least 6 months was 20.8 percent in calendar year 2002.

The percent of South Dakota PedNSS infant's breastfed at least 6 months by race or ethnicity in 2003 was 22.5 percent for whites and 19.8 percent for American Indians and Alaskan Natives.

The percent of infants in the South Dakota PedNSS population that were breastfed at least 12 months in 2003 was 13.1 percent. This shows a decrease over the 2002 rate of 14.1 percent. The three-year rate for the 2001 through 2003 PedNSS population was 11.6. In the United States PedNSS population the percent of infants that were breastfed at least 12 months was 12.3 percent in calendar year 2001.

The percent of South Dakota PedNSS infant's breastfed at least 12 months by race or ethnicity in 2003 was 13.6 percent for whites and 11.3 percent for American Indians and Alaskan Natives.

Table 19 **Pediatric Nutrition Surveillance System Ever Breastfed** Reporting Period 01/01/2003 to 12/31/2003

County	Ev	2003 Data Ever Breastfed (9)			Three Year Data (2001-2003) Ever Breastfed (9)			
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval		
Aurora	15	*	*	58	*	*		
Plankinton	15	*	*	58	*	*		
Beadle	89	*	*	359	57.7%	6.6%		
Huron	89	*	*	359	57.7%	6.6%		
Bennett	42	*	*	144	56.9%	10.3%		
Martin	42	*	*	144	56.9%	10.3%		
Bon Homme	33	*	*	110	40.0%	9.9%		
Tyndall	33	*	*	110	40.0%	9.9%		
Brookings	122	58.2%	11.4%	395	63.0%	6.6%		
Brookings	122	58.2%	11.4%	395	63.0%	6.6%		
Brown	211	47.4%	7.8%	624	47.4%	4.5%		
Aberdeen	211	47.4%	7.8%	624	47.4%	4.5%		
Brule	18	*	*	89	*	*		
Chamberlain	15	*	*	75	*	*		
Kimball	3		*	14				
Buffalo	57	*	*	172	33.1%	7.2%		
Ft. Thompson	57			172	33.1%	7.2%		
Butte	60	*	*	236	50.8%	7.6%		
Belle Fourche	51	*	*	198	49.5%	8.2%		
Newell	9			38				
Charles Mix	102	54.9% *	12.1% *	345	53.6%	6.5%		
Lake Andes	33	*	*	104 28	51.9% *	11.6%		
Platte	5 64	*	*					
Wagner Clark	12	*	*	213 47	51.2%	8.1%		
Clark	12	*	*	47 47	*	*		
Clay	65	*	*	238	63.9%	8.5%		
Vermillion	65	*	*	238	63.9%	8.5%		
Codington	173	46.8%	8.6%	551	49.9%	5.0%		
Watertown	173	46.8%	8.6%	551 551	49.9% 49.9%	5.0%		
Corson	1	*	*	10	+9.970 *	3.070		
McLaughlin	1 1	*	*	10	*	*		
Custer	26	*	*	82	*	*		
Custer	26	*	*	82	*	*		
Davison	128	52.3%	10.5%	416	48.8%	5.6%		
Mitchell	128	52.3%	10.5%	416	48.8%	5.6%		
Day	27	*	*	100	56.0%	12.3%		
Webster	27	*	*	100	56.0%	12.3%		
Deuel	14	*	*	39	*	*		
Clear Lake	14	*	*	39	*	*		
Oldai Laite	דו	<u> </u>		00	<u> </u>			

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level.

(9) Percent of infants born during the reporting period that were ever breastfed.

* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of

reliability or precision.

Table 19 (Continued)

Pediatric Nutrition Surveillance System Ever Breastfed Reporting Period 01/01/2003 to 12/31/2003

County	Ev	2003 Data er Breastfed	(9)	Three Year Data (2001-2003) Ever Breastfed (9)		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records	1 0100111	Interval	Records	1 0100110	Interval
Dewey	18	*	*	46	*	*
Isabel	2	*	*	13	*	*
Timber Lake	16	*	*	33	*	*
Douglas	14	*	*	39	*	*
Armour	14	*	*	39	*	*
Edmunds	9	*	*	32	*	*
Bowdle	4	*	*	22	*	*
Ipswich	5	*	*	10	*	*
Fall River	43	*	*	139	67.6%	11.5%
Hot Springs	43	*	*	139	67.6%	11.5%
Faulk	7	*	*	26	*	*
Faulkton	7	*	*	26	*	*
Grant	40	*	*	158	48.1%	9.1%
Milbank	40	*	*	158	48.1%	9.1%
Gregory	23	*	*	80	*	*
Bonesteel	6	*	*	16	*	*
Burke	17	*	*	64	*	*
Haakon	8	*	*	35	*	*
Philip	8	*	*	35	*	*
Hamlin	40	*	*	106	79.2%	14.2%
Hayti	40	*	*	106	79.2%	14.2%
Hand	19	*	*	51	*	*
Miller	19	*	*	51	*	*
Hanson	15	*	*	55	*	*
Alexandria	15	*	*	55	*	*
Harding	2	*	*	12	*	*
Buffalo	2	*	*	12	*	*
Hughes	127	47.2%	10.0%	347	47.6%	6.1%
Pierre	127	47.2%	10.0%	347	47.6%	6.1%
Hutchinson	22	*	*	85	*	*
Freeman	7	*	*	45	*	*
Parkston	15	*	*	40	*	*
Hyde	6	*	*	25	*	*
Highmore	6	*	*	25	*	*
Jackson	39	*	*	148	43.2%	8.9%
Kadoka	6	*	*	29	*	*
Wanblee	33	*		119	46.2%	10.2%
Jerauld	12	*	*	24	*	*
Wessington Springs	12			24		
Jones	9	*	*	33	*	*
Murdo	9	*	*	33	*	*

 ⁽⁹⁾ Percent of infants born during the reporting period that were ever breastfed.
 * Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 19 (Continued)

Pediatric Nutrition Surveillance System Ever Breastfed Reporting Period 01/01/2003 to 12/31/2003

County	Ev	2003 Data er Breastfed	(0)	Three Year Data (2001-2003) Ever Breastfed (9)		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
Cillic	Records	reiceilt	Interval	Records	reiceilt	Interval
Kingsbury	8	*	*	32	*	*
De Smet	8	*	*	32 32	*	*
Lake	59	*	*	168	65.5%	10.3%
Madison	59	*	*	168	65.5%	10.3%
Lawrence	123	67.2%	12.2%	414	64.3%	6.5%
Deadwood	36	07.270 *	12.2 /0 *	133	54.9%	10.6%
Spearfish	87	*	*	281	68.7%	8.1%
Lincoln	31	*	*	108	47.2%	10.9%
Canton	31 31	*	*	108	47.2% 47.2%	10.9%
	49	*	*	146	50.0%	9.6%
Lyman Kennebec	49 9	*	*	26	50.0% *	9.0% *
Lower Brule	9 40	*	*	20 120	48.3%	10.4%
	12	*	*	3 6	40.3% *	10.4%
Marshall Britton	1 2 12	*	*		*	*
		*	*	36	*	*
McCook	31	*	*	77	*	*
Salem	31	*	*	77	*	*
McPherson	10	*	*	30	*	*
Eureka	4	*	*	17	*	*
Leola	6			13		, ,
Meade	82	*	*	288	54.5%	7.2%
Faith	12	*	*	31	*	*
Sturgis	70	*	*	257	54.5%	7.6%
Miner	9	*	*	30	*	*
Howard	9	*	*	30	*	*
Minnehaha	1,065	55.6%	3.8%	3,328	56.9%	2.2%
Sioux Falls - Downtown	59	*	*	653	56.5%	4.8%
Sioux Falls - Eastside	490	55.9%	5.6%	1,302	55.3%	3.4%
Sioux Falls - Westside	516	55.6%	5.4%	1,373	58.6%	3.4%
Moody	38	*	*	114	56.1%	11.5%
Flandreau	38	*	*	114	56.1%	11.5%
Pennington	993	64.9%	4.2%	3,274	62.5%	2.3%
Ellsworth	143	77.6%	12.1%	509	69.5%	6.1%
Hill City	11	*	*	47	*	*
Rapid City	831	62.7%	4.5%	2,689	60.9%	2.5%
Wall	8	*	*	29	*	*
Perkins	16	*	*	64	*	*
Bison	2	*	*	18	*	*
Lemmon	14	*	*	46	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level. (9) Percent of infants born during the reporting period that were ever breastfed.

* Data from counties with less than 100 records per year was and a significantly less than 100 records per year was and a significantly less than 100 records per year was and a significantly less than 100 records per year was and a significantly lower than the state three-year data at the 0.05 level.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 19 (Continued)

Pediatric Nutrition Surveillance System Ever Breastfed Reporting Period 01/01/2003 to 12/31/2003

		2003 Data		Three Year Data (2001-2003)		
County	Ever Breastfed (9)			Ever Breastfed (9)		
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Potter	13	*	*	41	*	*
Hoven	13	*	*	41	*	*
Roberts	112	48.2%	10.8%	356	47.8%	6.0%
Sisseton	112	48.2%	10.8%	356	49.2%	6.1%
Sanborn	12	*	*	44	*	*
Woonsocket	12	*	*	44	*	*
Shannon	350	49.1%	6.2%	1,056	49.2%	3.6%
Kyle	88	*	*	265	52.5%	7.3%
Manderson	28	*	*	83	*	*
Pine Ridge	211	46.9%	7.8%	598	47.2%	4.6%
Porcupine	23	*	*	110	49.1%	11.0%
Spink	33	*	*	100	54.0%	12.1%
Redfield	33	*	*	100	54.0%	12.1%
Stanley	21	*	*	66	*	*
Ft. Pierre	21	*	*	66	*	*
Sully	4	*	*	12	*	*
Onida	4	*	*	12	*	*
Tripp	36	*	*	123	38.2%	9.2%
Winner	36	*	*	123	38.2%	9.2%
Turner	24	*	*	79	*	*
Parker	7	*	*	30	*	*
Viborg	17	*	*	49	*	*
Union	43	*	*	150	42.7%	8.8%
Elk Point	43	*	*	150	42.7%	8.8%
Walworth	44	*	*	141	55.3%	10.3%
Mobridge	39	*	*	127	53.5%	10.7%
Selby	5	*	*	14	*	*
Yankton	138	49.3%	9.8%	428	47.2%	5.5%
Yankton	138	49.3%	9.8%	428	47.2%	5.5%
Ziebach	8	*	*	32	*	*
Dupree	8	*	*	32	*	*
- 1						
Healthy People 2010		75%			75%	
Statewide PedNSS	5,012	55.9%	1.7%	16,193	55.4%	1.0%
National 2002		52.5%	/0	,	33.470	1.070

⁽⁹⁾ Percent of infants born during the reporting period that were ever breastfed.
* Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Pediatric Nutrition Surveillance System Ever Breastfed

Table 20

Reporting Period 01/01/2003 to 12/31/2003

County**	2003 Data Ever Breastfed (9)			Three Year Data (2001-2003) Ever Breastfed (9)			
	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records		Interval	
Aberdeen Area	250	49.2%	7.3%	760	48.3%	4.1%	
East Central	208	63.0%	9.1%	647	64.6%	5.2%	
Huron-Redfield	122	54.9%	11.0%	459	56.9%	5.8%	
Mitchell-Chamberlain	200	53.5%	8.5%	686	49.1%	4.4%	
Northern Black Hills	205	60.0%	8.9%	702	60.3%	4.8%	
Northeast Area	351	48.7%	6.1%	1,151	49.4%	3.4%	
North Central	71	*	*	239	53.6%	7.8%	
Northwest Area	104	52.9%	11.7%	390	50.5%	5.9%	
Oahe Area	190	50.0%	8.4%	542	50.0%	5.0%	
Pickstown Area	194	50.5%	8.4%	659	49.8%	4.5%	
Pine Ridge Area	431	49.0%	5.5%	1,348	49.4%	3.1%	
Rapid City Area	993	64.9%	4.2%	3,274	62.5%	2.3%	
Southeast Area	246	53.7%	7.7%	816	51.2%	4.1%	
Sioux Falls Area	1,065	55.6%	3.8%	3,328	56.9%	2.2%	
Sioux Empire Area	154	58.4%	10.1%	462	57.1%	5.8%	
South Central	159	42.1%	8.5%	509	42.6%	4.8%	
Southern Black Hills	69	*	*	221	71.9%	9.4%	
Healthy People 2010		75.0%			75.0%		
Statewide PedNSS	5,012	55.9%	1.7%	16,193	55.4%	1.0%	
National 2002		52.5%			51.1%		

⁽⁹⁾ Percent of infants born during the reporting period that were ever breastfed.

* Data from regions with less than 100 records per year were not analyzed as the

^{*} Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2003 to 12/31/2003

Table 21

	2003 Data			Three Year Data (2001-2003)			
County	Breastfed at Least 6 Months(10)			Breastfed at Least 6 Months(10)			
Clinic	Total	Percent	Confidence	Total	Percent	Confidence	
	Records		Interval	Records		Interval	
Aurora	9	*	*	44	*	*	
Plankinton	9	*	*	44	*	*	
Beadle	73	*	*	297	16.8%	3.9%	
Huron	73	*	*	297	16.8%	3.9%	
Bennett	28	*	*	114	25.4%	7.8%	
Martin	28	*	*	114	25.4%	7.8%	
Bon Homme	19	*	*	86	*	*	
Tyndall	19	*	*	86	*	*	
Brookings	60	*	*	288	28.8%	5.2%	
Brookings	60	*	*	288	28.8%	5.2%	
Brown	128	18.8%	6.3%	487	16.6%	3.0%	
Aberdeen	128	18.8%	6.3%	487	16.6%	3.0%	
Brule	18	*	*	70	*	*	
Chamberlain	15	*	*	61	*	*	
Kimball	3	*	*	9	*	*	
Buffalo	38	*	*	141	5.7%	3.3%	
Ft. Thompson	38			141	5.7%	3.3%	
Butte	42	*	*	198	31.8%	6.6%	
Belle Fourche	35	*	*	167	31.1% *	7.1%	
Newell	7	*		31			
Charles Mix	53	*	*	262	17.2%	4.2%	
Lake Andes	14	*		80	*	*	
Platte	8	*	*	25			
Wagner	31	*	*	157	14.6%	5.0%	
Clark	9 9	*	*	42 42	*	*	
Clark		*	*				
Clay Vermillion	45 45	*	*	191	20.4%	5.4%	
	98	*	*	191	20.4% 16.6%	5.4% 3.3%	
Codington Watertown	9 8 98	*	*	410 410	1 6.6% 16.6%	3.3%	
		*	*	10	*	3.3%	
Corson McLaughlin	1 1	*	*	10	*	*	
Custer	18	*	*	61	*	*	
	18	*	*		*	*	
Custer		*	*	61	13.2%	3.5%	
Davison Mitchell	69 69	*	*	295 295	13.2%	3.5%	
	25	*	*	88	13.2%	3.5%	
Day Webster	2 5 25	*	*	88	*	*	
Deuel	9	*	*	27	*	*	
Clear Lake	9	*	*	27 27	*	*	
Cical Lake	9			۷1			

⁽¹⁰⁾ Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 21 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 6 Months of Age Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		at Least 6 N			at Least 6 N	
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	13	*	*	37	*	*
Isabel	5	*	*	12	*	*
Timber Lake	8	*	*	25	*	*
Douglas	11	*	*	37	*	*
Armour	11	*	*	37	*	*
Edmunds	8	*	*	28	*	*
Bowdle	5	*	*	20	*	*
Ipswich	3	*	*	8	*	*
Fall River	33	*	*	113	22.1%	7.3%
Hot Springs	33	*	*	113	22.1%	7.3%
Faulk	3	*	*	19	*	*
Faulkton	3	*	*	19	*	*
Grant	29	*	*	121	16.5%	6.1%
Milbank	29	*	*	121	16.5%	6.1%
Gregory	13	*	*	70	*	*
Bonesteel	1	*	*	20	*	*
Burke	12	*	*	50	*	*
Haakon	8	*	*	31	*	*
Philip	8	*	*	31	*	*
Hamlin	26	*	*	84	*	*
Hayti	26	*	*	84	*	*
Hand	5	*	*	39	*	*
Miller	5	*	*	39	*	*
Hanson	9	*	*	49	*	*
Alexandria	9	*	*	49	*	*
Harding	7	*	*	9	*	*
Buffalo	7	*	*	9	*	*
Hughes	61	*	*	250	11.6%	3.5%
Pierre	61	*	*	250	11.6%	3.5%
Hutchinson	24	*	*	67	*	*
Freeman	14	*	*	37	*	*
Parkston	10	*	*	30	*	*
Hyde	7	*	*	29	*	*
Highmore	7	*	*	29	*	*
Jackson	32	*	*	123	24.4%	7.3%
Kadoka	4	*	*	26	*	*
Wanblee	28	*	*	97	*	*
Jerauld	6	*	*	16	*	*
Wessington Springs	6	*	*	16	*	*
Jones	7	*	*	27	*	*
Murdo	7	*	*	27	*	*

⁽¹⁰⁾ Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 21 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 6 Months of Age Reporting Period 01/01/2003 to 12/31/2003

County	Broastfod	2003 Data at Least 6 N	Ionths(10)		ear Data (20 at Least 6 N	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
Olline	Records	1 ercent	Interval	Records	1 ercent	Interval
Kingsbury	4	*	*	30	*	*
De Smet	4	*	*	30	*	*
Lake	28	*	*	130	16.2%	5.8%
Madison	28	*	*	130	16.2%	5.8%
Lawrence	74	*	*	324	31.2%	5.1%
Deadwood	26	*	*	96	*	*
Spearfish	48	*	*	228	35.1%	6.5%
Lincoln	15	*	*	78	*	*
Canton	15	*	*	78	*	*
Lyman	37	*	*	127	16.5%	5.9%
Kennebec	6	*	*	19	*	*
Lower Brule	31	*	*	108	16.7%	6.5%
Marshall	5	*	*	24	*	*
Britton	5	*	*	24	*	*
McCook	18	*	*	57	*	*
Salem	18	*	*	57	*	*
McPherson	9	*	*	27	*	*
Eureka	5	*	*	16	*	*
Leola	4	*	*	11	*	*
Meade	45	*	*	234	17.5%	4.5%
Faith	6	*	*	28	*	*
Sturgis	39	*	*	206	14.1%	4.3%
Miner	7	*	*	25	*	*
Howard	7	*	*	25	*	*
Minnehaha	510	22.0%	3.4%	2,237	19.4%	1.5%
Sioux Falls - Downtown	11	*	*	554	17.7%	2.9%
Sioux Falls - Eastside	235	17.9%	4.5%	835	18.4%	2.4%
Sioux Falls - Westside	264	25.8%	5.1%	848	21.5%	2.6%
Moody	21	*	*	91	*	*
Flandreau	21	*	*	91	*	*
Pennington	551	24.3%	3.5%	2,406	22.2%	1.6%
Ellsworth	83	*	*	363	24.5%	4.3%
Hill City	11			38		
Rapid City	452	22.8%	3.7%	1,981	21.6%	1.7%
Wall	5	*	*	24	*	*
Perkins	19	*	*	53	*	*
Bison	6	*	*	16	*	*
Lemmon	13	*	*	37	*	*

⁽¹⁰⁾ Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 21 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 6 Months of Age Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		at Least 6 N			at Least 6 N	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Potter	5	*	*	29	*	*
Hoven	5	*	*	29	*	*
Roberts	62	*	*	270	17.8%	4.2%
Sisseton	62	*	*	270	17.8%	4.2%
Sanborn	7	*	*	36	*	*
Woonsocket	7	*	*	36	*	*
Shannon	179	24.6%	6.1%	793	23.6%	2.8%
Kyle	54	*	*	203	25.6%	5.8%
Manderson	17	*	*	63	*	*
Pine Ridge	88	*	*	437	21.1%	3.6%
Porcupine	20	*	*	90	*	*
Spink	21	*	*	81	*	*
Redfield	21	*	*	81	*	*
Stanley	18	*	*	58	*	*
Ft. Pierre	18	*	*	58	*	*
Sully	2	*	*	10	*	*
Onida	2	*	*	10	*	*
Tripp	24	*	*	105	14.3%	6.1%
Winner	24	*	*	105	14.3%	6.1%
Turner	11	*	*	57	*	*
Parker	5	*	*	21	*	*
Viborg	6	*	*	36	*	*
Union	25	*	*	105	14.3%	6.1%
Elk Point	25	*	*	105	14.3%	6.1%
Walworth	21	*	*	115	17.4%	6.4%
Mobridge	18	*	*	108	15.7%	6.3%
Selby	3	*	*	7	*	*
Yankton	75	*	*	322	14.9%	3.5%
Yankton	75	*	*	322	14.9%	3.5%
Ziebach	4	*	*	23	*	*
Dupree	4	*	*	23	*	*
'						
Healthy People 2010		50%			50%	
Statewide PedNSS	2,841	22.0%	1.4%	12,107	20.2%	0.7%
National 2002	·	20.8%		•		

⁽¹⁰⁾ Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Pediatric Nutrition Surveillance System
Breastfed at 6 Months of Age
Reporting Period 01/01/2003 to 12/31/2003

Table 22

		2003 Data		Three Y	'ear Data (20	01-2003)
Region**	Breastfed	at Least 6 N	nonths(10)	Breastfed	at Least 6 N	lonths(10)
	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Aberdeen Area	158	20.9%	6.0%	599	17.7%	2.8%
East Central	111	32.4%	8.9%	493	31.8%	4.2%
Huron-Redfield	94	*	*	378	18.5%	3.6%
Mitchell-Chamberlain	118	13.6%	5.6%	510	16.7%	3.0%
Northern Black Hills	119	28.6%	8.1%	558	25.4%	3.5%
Northeast Area	207	18.8%	5.0%	870	17.2%	2.3%
North Central	42	*	*	199	20.1%	5.2%
Northwest Area	85	*	*	320	27.5%	4.8%
Oahe Area	98	*	*	415	13.5%	3.0%
Pickstown Area	120	15.8%	6.0%	522	16.1%	2.9%
Pine Ridge Area	239	27.2%	5.5%	1,030	23.9%	2.5%
Rapid City Area	551	24.3%	3.5%	2,406	22.2%	1.6%
Southeast Area	145	21.4%	6.3%	618	16.5%	2.7%
Sioux Falls Area	510	22.0%	3.4%	2,237	19.4%	1.5%
Sioux Empire Area	79	*	*	347	16.7%	3.6%
South Central	114	10.5%	5.0%	431	12.5%	2.8%
Southern Black Hills	51	*	*	174	21.3%	5.8%
Healthy People 2010		50.0%			50.0%	
Statewide PedNSS	2,841	22.0%	1.4%	12,107	20.2%	0.7%
National 2002		20.8%				

⁽¹⁰⁾ Percent of infants who turned 6 months of age during the reporting period by/on their date of visit and were breastfed at least 6 months.

^{*} Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Pediatric Nutrition Surveillance System Breastfed at 12 Months of Age Reporting Period 01/01/2003 to 12/31/2003

Table 23

		2003 Data			Year Data (20	
County	Breastfed	at Least 12			at Least 12	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Aurora	9	*	*	44	*	*
Plankinton	9	*	*	44	*	*
Beadle	60	*	*	248	8.1%	3.0%
Huron	60	*	*	248	8.1%	3.0%
Bennett	22	*	*	96	*	*
Martin	22	*	*	96	*	*
Bon Homme	24	*	*	76	*	*
Tyndall	24	*	*	76	*	*
Brookings	57	*	*	239	18.8%	4.6%
Brookings	57	*	*	239	18.8%	4.6%
Brown	92	*	*	367	9.3%	2.6%
Aberdeen	92	*	*	367	9.3%	2.6%
Brule	16	*	*	54	*	*
Chamberlain	12	*	*	46	*	*
Kimball	4	*	*	8	*	*
Buffalo	24	*	*	118	3.4%	2.8%
Ft. Thompson	24	*	*	118	3.4%	2.8%
Butte	36	*	*	163	27.6%	6.8%
Belle Fourche	29	*	*	136	27.2%	7.4%
Newell	7	*	*	27	*	*
Charles Mix	56	*	*	243	7.8%	2.9%
Lake Andes	15	*	*	71	*	*
Platte	4	*	*	23		
Wagner	37			149	6.7%	3.5%
Clark	6	*	*	38	*	*
Clark	6			38		
Clay	34	*	*	152	9.9%	4.2%
Vermillion	34		*	152	9.9%	4.2%
Codington	78	*	*	332	9.6%	2.8%
Watertown	78			332	9.6%	2.8%
Corson	0	*	*	10	*	*
McLaughlin	0	*	*	10	*	*
Custer	13	*	*	48	*	*
Custer	13		"	48		*
Davison	71	*	*	239	6.7%	2.8%
Mitchell	71			239	6.7%	2.8%
Day	22	*	*	81	*	*
Webster	22	*	*	81	*	*
Deuel	5	*	*	24	*	*
Clear Lake	5	*	*	24	*	*

Shaded rows indicate the three-year data are significantly lower than the state three-year data at the 0.05 level. (11) Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 23 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 12 Months of Age Reporting Period 01/01/2003 to 12/31/2003

		2003 Data			ear Data (20	
County		at Least 12 I			at Least 12 I	
Clinic	Total Records	Percent	Confidence Interval	Total Records	Percent	Confidence Interval
Dewey	8	*	*	30	*	*
Isabel	2	*	*	9	*	*
Timber Lake	6	*	*	21	*	*
Douglas	3	*	*	28	*	*
Armour	3	*	*	28	*	*
Edmunds	6	*	*	25	*	*
Bowdle	6	*	*	20	*	*
Ipswich	0	*	*	5	*	*
Fall River	21	*	*	83	*	*
Hot Springs	21	*	*	83	*	*
Faulk	9	*	*	23	*	*
Faulkton	9	*	*	23	*	*
Grant	15	*	*	95	*	*
Milbank	15	*	*	95	*	*
Gregory	12	*	*	62	*	*
Bonesteel	3	*	*	21	*	*
Burke	9	*	*	41	*	*
Haakon	9	*	*	29	*	*
Philip	9	*	*	29	*	*
Hamlin	21	*	*	71	*	*
Hayti	21	*	*	71	*	*
Hand	7	*	*	35	*	*
Miller	7	*	*	35	*	*
Hanson	13	*	*	46	*	*
Alexandria	13	*	*	46	*	*
Harding	2	*	*	7	*	*
Buffalo	2	*	*	7	*	*
Hughes	60	*	*	196	6.1%	2.9%
Pierre	60	*	*	196	6.1%	2.9%
Hutchinson	9	*	*	52	*	*
Freeman	5	*	*	28	*	*
Parkston	4	*	*	24	*	*
Hyde	5	*	*	23	*	*
Highmore	5	*	*	23	*	*
Jackson	19	*	*	107	11.2%	5.3%
Kadoka	5	*	*	28	*	*
Wanblee	14	*	*	79	*	*
Jerauld	1	*	*	16	*	*
Wessington Springs	1	*	*	16	*	*
Jones	5	*	*	23	*	*
Murdo	5	*	*	23	*	*

⁽¹¹⁾ Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 23 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 12 Months of Age Reporting Period 01/01/2003 to 12/31/2003

County	Drootfod	2003 Data	Montho(44)		ear Data (20		
County Clinic	Total	at Least 12 I	Confidence	Total	at Least 12 I	Confidence	
Cillic	Records	Percent	Interval	Records	Percent	Interval	
Kingsbury	6	*	*	27	*	*	
De Smet	6	*	*	27 27	*	*	
Lake	23	*	*	91	*	*	
Madison	23	*	*	91	*	*	
Lawrence	65	*	*	226	21.7%	5.1%	
Deadwood	14	*	*	67	*	*	
Spearfish	51	*	*	159	26.4%	6.7%	
Lincoln	18	*	*	68	*	*	
Canton	18	*	*	67	*	*	
Lyman	27	*	*	117	7.7%	4.2%	
Kennebec	2	*	*	16	*	*	
Lower Brule	25	*	*	101	8.9%	4.9%	
Marshall	3	*	*	24	*	*	
Britton	3	*	*	24	*	*	
McCook	7	*	*	44	*	*	
Salem	7	*	*	44	*	*	
McPherson	5	*	*	19	*	*	
Eureka	1	*	*	10	*	*	
Leola	4	*	*	9	*	*	
Meade	59	*	*	199	12.6%	4.1%	
Faith	10	*	*	27	*	*	
Sturgis	49	*	*	172	11.0%	4.2%	
Miner	3	*	*	22	*	*	
Howard	3	*	*	22	*	*	
Minnehaha	404	11.4%	2.8%	1,588	10.9%	1.4%	
Sioux Falls - Downtown	16	*	*	439	10.5%	2.5%	
Sioux Falls - Eastside	186	12.9%	4.3%	579	12.3%	2.4%	
Sioux Falls - Westside	202	9.9%	3.6%	570	9.8%	2.2%	
Moody	16	*	*	72	*	*	
Flandreau	16	*	*	72	*	*	
Pennington	520	14.2%	2.7%	1,958	11.7%	1.3%	
Ellsworth	64	*	*	300	10.3%	3.0%	
Hill City	15			32		*	
Rapid City	436	14.4%	3.0%	1,600	12.0%	1.4%	
Wall	5	*	*	26	*	*	
Perkins	21	*	*	55	*	*	
Bison	6	*	*	15	*	*	
Lemmon	15	^	_ ^	40	^	^	

⁽¹¹⁾ Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 23 (Continued)

Pediatric Nutrition Surveillance System Breastfed at 12 Months of Age Reporting Period 01/01/2003 to 12/31/2003

Country	Duesattad	2003 Data	Mantha (44)		ear Data (20	
County		at Least 12 I			at Least 12	
Clinic	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval *	Records		Interval *
Potter	6	*	*	25	*	*
Hoven	6			25		
Roberts	46	*	*	248	10.9%	3.4%
Sisseton	46	*	*	248	10.9%	3.4%
Sanborn	4	*	*	30	*	*
Woonsocket	4	*	*	30	*	*
Shannon	148	21.6%	6.3%	634	18.9%	2.8%
Kyle	34	*	*	169	19.5%	5.6%
Manderson	9	*	*	46	*	*
Pine Ridge	82	*	*	347	17.3%	3.7%
Porcupine	23	*	*	72	*	*
Spink	22	*	*	72	*	*
Redfield	22	*	*	72	*	*
Stanley	16	*	*	46	*	*
Ft. Pierre	16	*	*	46	*	*
Sully	1	*	*	7	*	*
Onida	1	*	*	7	*	*
Tripp	20	*	*	79	*	*
Winner	20	*	*	79	*	*
Turner	9	*	*	45	*	*
Parker	4	*	*	19	*	*
Viborg	5	*	*	26	*	*
Union	19	*	*	72	*	*
Elk Point	19	*	*	72	*	*
Walworth	17	*	*	99	*	*
Mobridge	13	*	*	88	*	*
Selby	4	*	*	11	*	*
Yankton	68	*	*	260	6.2%	2.5%
Yankton	68	*	*	260	6.2%	2.5%
Ziebach	5	*	*	25	*	*
Dupree	5	*	*	25	*	*
,						
Healthy People 2010		25%			25%	
Statewide PedNSS	2,408	13.1%	1.2%	9,675	11.6%	0.6%
National 2002		12.3%				

⁽¹¹⁾ Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

^{*} Data from counties with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

Table 24

Pediatric Nutrition Surveillance System
Breastfed at 12 Months of Age
Reporting Period 01/01/2003 to 12/31/2003

Pogion**	Broodfod	2003 Data	Montho(44)		ear Data (20	
Region**		at Least 12 I			Months(11)	
	Total	Percent	Confidence	Total	Percent	Confidence
	Records		Interval	Records		Interval
Aberdeen Area	117	16.2%	6.1%	472	10.6%	2.5%
East Central	100	22.0%	7.7%	409	18.6%	3.5%
Huron-Redfield	82	*	*	320	7.5%	2.5%
Mitchell-Chamberlain	114	7.9%	4.3%	429	6.3%	2.0%
Northern Black Hills	124	22.6%	7.0%	425	17.4%	3.3%
Northeast Area	150	13.3%	4.9%	737	10.4%	2.0%
North Central	37	*	*	176	9.1%	3.7%
Northwest Area	72	*	*	280	18.9%	4.3%
Oahe Area	95	*	*	332	7.8%	2.5%
Pickstown Area	104	5.8%	3.9%	461	8.5%	2.2%
Pine Ridge Area	189	20.1%	5.4%	837	17.4%	2.4%
Rapid City Area	520	14.2%	2.7%	1,958	11.7%	1.3%
Southeast Area	121	9.1%	4.5%	484	8.3%	2.2%
Sioux Falls Area	404	11.4%	2.8%	1,588	10.9%	1.4%
Sioux Empire Area	60	*	*	270	8.9%	3.0%
South Central	85	*	*	366	6.0%	2.1%
Southern Black Hills	34	*	*	131	16.8%	5.9%
Healthy People 2010		25.0%			25.0%	
Statewide PedNSS	2,408	13.1%	1.2%	9,675	11.6%	0.6%
National 2002		12.3%				

⁽¹¹⁾ Percent of children who turned 12 months of age during the reporting period by/on their date of visit and were breastfed at least 12 months.

^{*} Data from regions with less than 100 records per year were not analyzed as the values do not meet standards of reliability or precision.

^{**} Counties by regions and regions by county conversion tables are in Appendix A and Appendix B.

Pediatric Nutrition Surveillance System
Statewide Summary of Indicators by Age and Race/Ethnicity
Reporting Period 01/01/2003 to 12/31/2003

Table 14

	Е	Birth weigh	nt		Height an	d Weight		≥ 2 Ye	ears Overv	veight	Ane	mia	В	reastfeedi	ng
Age					Short	Under	Over		At Risk	Over				Duration	
		Low	High		Stature	Weight	Weight		%>85th	%≤95th					
	Number	%<2500	%>4000	Number	%<5th	%<5th	%>95th	Number	& <95th		Number	% Low	Ever	6+ Mo.	12+ Mo.
White															
< 1 Year	3,489	8.3%	8.5%	5,400	9.6%	4.9%	8.7%	0	0.0%	0.0%	2,276	10.1%	Breast	feeding da	ta is for
1 Year				2,454	5.5%	3.4%	13.3%	0	0.0%	0.0%	2,689	7.0%	ages tl	rough 23	months
2-4 Years				5,746	4.6%	2.9%	11.2%	5,746	16.5%	11.2%	4,751	4.6%			
Total				13,600	6.7%	3.8%	10.6%	5,746	16.5%	11.2%	9,716	6.6%	58.6	22.5	13.6
Black								_							
< 1 Year	127	7.1%	9.4%	190	6.8%	5.3%	9.5%	0	0.0%	0.0%	70	*		feeding da	
1 Year				109	3.7%	5.5%	14.7%	0	0.0%	0.0%	110	*	ages ti	rough 23	months
2-4 Years				214	1.9%	5.1%	15.9%	214	14.0%	15.9%	188	8.9%			
Total				513	4.1%	5.3%	13.3%	214	14.0%	15.9%	368	8.4%	61.1	*	*
American	Indian or	Alaskan N	ative												
< 1 Year	1,269	6.6%	12.0%	1894	7.9%	4.0%	13.1%	0	0.0%	0.0%	718	11.1%	Breast	feeding da	ta is for
1 Year				958	3.0%	1.4%	25.4%	0	0.0%	0.0%	1,046	11.1%	ages tl	rough 23	months
2-4 Years				2386	2.3%	1.8%	19.1%	2,386	21.0%	19.1%	2,028	8.6%			
Total				5238	4.4%	2.5%	18.1%	2,386	21.0%	19.1%	3,792	9.8%	48.0%	19.8%	11.3%

^(*) Percentages are not calculated if <100 records are available for analysis after exclusions.

Table14 (Continued)

Pediatric Nutrition Surveillance System Statewide Summary of Indicators by Age and Race/Ethnicity Reporting Period 01/01/2003 to 12/31/2003

	Е	Birth weigh	nt		Height an	d Weight		≥ 2 Ye	ars Overv	veight	Ane	mia	В	reastfeedi	ng
Age					Short	Under	Over		At Risk	Over				Duration	
		Low	High		Stature	Weight	Weight		%>85th	%≤95th					
	Number	%<2500	%>4000	Number	%<5th	%<5th	%>95th	Number	& <95th		Number	% Low	Ever	6+ Mo.	12+ Mo.
Asian or P	acific Isla	nder									_				
< 1 Year	80	*	*	98	*	*	*	0	*	*	28	*	Breast	feeding da	ta is for
1 Year				49	*	*	*	0	*	*	52	*	ages t	hrough 23	months
2-4 Years				75	*	*	*	75	*	*	59	*			
Total				222	9.0%	5.0%	9.5%	75	*	*	139	14.4%	*	*	*
All Other < 1 Year	3	*	*	2	*	*	*	0	*	*	0	*	Breast	feeding da	ta is for
1 Year				1	*	*	*	0	*	*	1	*		nrough 23	
2-4 Years				2	*	*	*	2	*	*	2	*			
Total				5	*	*	*	2	*	*	3	*	*	*	*
All Races	and Ethni	c Origins													
< 1 Year	4,968	8.0%	9.4%	7584	9.1%	4.7%	9.8%	0	0.0%	0.0%	3,092	10.3%	Breast	feeding da	ta is for
1 Year				3571	4.8%	2.9%	16.6%	0	0.0%	0.0%	3,898	8.2%	ages t	hrough 23	months
2-4 Years				8423	3.9%	2.7%	13.6%	8,423	17.7%	13.6%	7,028	6.0%			
Total				19578	6.1%	3.5%	12.7%	8,423	17.7%	13.6%	14,018	7.6%	55.9	22.0	13.1

^(*) Percentages are not calculated if <100 records are available for analysis after exclusions.

Appendices

Appendix A

South Dakota PedNSS Counties by Regions

County	Region
Aurora	Mitchell-Chamberlain
Beadle	Huron-Redfield
Bennett	Pine Ridge Area
Bon Homme	Pickstown Area
Brookings	East Central
Brown	Aberdeen Area
Brule	Mitchell-Chamberlain
Buffalo	South Central
Butte	Northwest Area
Charles Mix	Pickstown Area
Clark	Northeast Area
Clay	Southeast Area
Codington	Northeast Area
Corson	North Central
Custer	Southern Black Hills
Davison	Mitchell-Chamberlain
Day	Aberdeen Area
Deuel	Northeast Area
Dewey	Northwest Area
Douglas	Pickstown Area
Edmunds	North Central
Fall River	Southern Black Hills
Faulk	North Central
Grant	Northeast Area
Gregory	Pickstown Area
Haakon	South Central
Hamlin	East Central
Hand	Oahe Area
Hanson	Mitchell-Chamberlain
Harding	Northwest Area
Hughes	Oahe Area
Hutchinson	Pickstown Area
Hyde	Oahe Area
Jackson	Pine Ridge Area
Jerauld	Mitchell-Chamberlain
Jones	South Central
Kingsbury	East Central
Lake	Sioux Empire Area
Lawrence	Northern Black Hills
Lincoln	Sioux Empire Area
Lyman	South Central
Marshall	Aberdeen Area

Appendix A (Continued)

South Dakota PedNSS Counties by Regions

County	Region
-	
McCook	Sioux Empire Area
McPherson	North Central
Meade	Northern Black Hills
Mellette	South Central
Miner	Sioux Empire Area
Minnehaha	Sioux Falls Area
Moody	East Central
Pennington	Rapid City Area
Perkins	Northwest Area
Potter	Oahe Area
Roberts	Northeast Area
Sanborn	Mitchell-Chamberlain
Shannon	Pine Ridge Area
Spink	Huron-Redfield
Stanley	Oahe Area
Sully	Oahe Area
Tripp	South Central
Turner	Sioux Empire Area
Union	Southeast Area
Walworth	North Central
Yankton	Southeast Area
Ziebach	Northwest Area

Appendix B

South Dakota PedNSS Regions by County

Region	County
Rogion	County
Aberdeen Area	Brown
	Day
	Marshall
East Central	Brookings
	Hamlin
	Kingsbury
	Moody
Huron-Redfield	Beadle
	Spink
Mitchell-Chamberlain	Aurora
	Brule
	Davison
	Hanson
	Jerauld
	Sanborn
North Central	Corson
	Edmunds
	Faulk
	McPherson
	Walworth
Northeast Area	Clark
	Codington
	Deuel
	Grant
	Roberts
Northern Black Hills	Lawrence
	Meade
Northwest Area	Butte
	Dewey
	Harding
	Perkins
	Ziebach
Oahe Area	Hand
	Hughes
	Hyde
	Potter
	Stanley
	Sully
Pickstown Area	Bon Homme
	Charles Mix
	Douglas
	Gregory
	Hutchinson

Appendix B (Continued)

South Dakota PedNSS Regions by County

Region	County
Pine Ridge Area	Bennett
	Jackson
	Shannon
Rapid City Area	Pennington
Sioux Empire Area	Lake
	Lincoln
	McCook
	Miner
	Turner
Sioux Falls Area	Minnehaha
South Central	Buffalo
	Haakon
	Jones
	Lyman
	Tripp
Southeast Area	Clay
	Union
	Yankton
Southern Black Hills	Custer
	Fall River